



**Reissue Application No.:
09/512,592**

Group Art Unit: 2161

**United States Patent No.:
5,806,063**

Examiner: LeRoux, E.

Issued: September 8, 1998

Applicant:

Dickens-Soeder2000,LLC

Reexamination Proceeding:

90/005,592

Filed: December 21, 1999

Reexamination Proceeding:

90/005,628

Filed: February 2, 2000

Reexamination Proceeding:

90/005,727

Filed: May 16, 2000

Reexamination Proceeding

90/006,541

Filed February 2, 2003

**Response to Notification of Non-Compliant Appeal Brief
Remarks**

On October 10, 2005 Applicant appealed the final rejection of the Examiner in the above captioned merged Reexamination/Reissue proceeding, and filed an Appeal Brief on December 12, 2005. The form of the Appeal Brief was not objected to by the Patent Office. The Examiner filed an Examiner's Answer and made no objection to the form of the applicant's Appeal Brief. Applicant filed a Response to the Examiner's Answer. The Appeal was "electronically received by the Board of Patent Appeals and Interferences" on November 1, 2006.¹

Over six months later, in this proceeding which by Rule is supposed to be an "expedited proceeding," the Board of Appeals ruled that "the application is not ready for docketing as an appeal." The Board took the position that the applicant's Appeal Brief "used the format set forth in 37 C.F.R. §1.192 (c)" which was abolished in 2004 and replaced by 37 C.F.R. §41.37 (c). The Board noted that the following headings were missing from the applicant's Appeal Brief:

1. "Summary of the Claimed Subject Matter;"
2. "Grounds for Rejection to be Reviewed on Appeal,"
3. "Evidence Appendix ," and

¹ ORDER REMANDING APPEAL TO EXAMINER, mailed April 27, 2007.

January 28, 2000
MAIL STOP: AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



Via: Express Mail

Dear Commissioner:

Enclosed is a **Applicant's Response to Notification of Non-Compliant Appeal Brief and Applicant's Replacement Appeal Brief** in the merged cases:

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux. E.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
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90/005,592)	
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<u>Filed: February 2, 2000</u>)	
Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

This mailing consists of:

Response to Notification of Non-Compliant Appeal Brief
Applicant's Replacement Appeal Brief
Certificate of Mailing By Express Mail
Certificate of Service By Mail
Request for One Month Extension of Time
Check in the amount of \$120.00 for a one Month Extension of time
Return receipt postcard

If you have any questions, please do not hesitate to contact me.

Regards,

A handwritten signature in cursive script that reads "Bruce M. Dickens".

Bruce M. Dickens
949-857-1487

January 28, 2008
MAIL STOP: AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

Re: Response to Notification of Non-compliant Appeal Brief and Replacement appeal Brief in the merged cases:

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux, E.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
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90/005,628)	
<u>Filed: February 2, 2000</u>)	
Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed on February 7, 2003</u>)	

Enclosed with this Certificate of Mailing is:

Cover Letter

Response to Notification of Non-Compliant Appeal Brief

Replacement Appeal Brief

Request for Extension of Time

Check in the amount of 120.00 for fee for a one month extension of time

Certificate of Service By Mail

Return Receipt Postcard

I Bruce M. Dickens certify that on the above noted date I personally mailed the above referenced documents to the USPTO by Express Mail Post Office to Addressee.

Bruce M. Dickens

Bruce M. Dickens

949-857-1487

Express Mail No.

EB 888770714 US

CERTIFICATE OF SERVICE BY MAIL

January 28, 2008

Re: **Response to Notice of Non-Compliant Appeal Brief and Replacement Appeal Brief** in the merged cases:

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux, E.
5,806,063)	
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90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 7, 2003</u>)	


I hereby certify that I have served the following on the below listed counsel of record by placing same in a first class mail envelope addressed to the below listed addresses with appropriate postage affixed and deposited with the United States Post Office:

Response to Notice of Non-Compliant Appeal Brief
Replacement Appeal Brief with Appendices
Request for Extension of Time
Certificate of Express Mailing

Paul E. Crawford
Connolly Bove Loge and Hutz LLP
1200 Market Street
Wilmington, DE 19801

Ross F. Hunt Jr.
Larson & Taylor
1199 North Fairfax St., Suite 900
Alexandria, VA 22314

Stanley B. Green
Connolly Bove Loge and Hutz LLP
1990 M Street, NW
Washington, D.C. 20036


Bruce M. Dickens
949-857-1487

4. “Related Proceedings Appendix.”

In addition, the Board noted that Applicant had included discontinued headings “Issues,” “Summary of the Invention” and “Grouping of Claims.”

The Board instructed the Examiner to:

1. instruct applicants [sic] to provide a corrected Appeal Brief;
2. enter the corrected Appeal Brief;
3. “either acknowledge entry and consideration of the corrected appeal brief or submit an amended examiner’s answer *if needed*,” (emphasis added) and
4. “for such further action as may be appropriate.”

On November 26, 2007, over six months after the Board’s Remand Order and over one year after applicant’s Appeal Brief was transmitted to the Board, and almost two years after the applicant’s Appeal Brief was originally filed, the Examiner issued a “Notification of Non-Compliant Appeal Brief,” indicating that “the brief does not contain items required under 37 C.F.R. 41.37 (c), or the items are not under the proper heading or in the proper order.” No other indication was received by applicant for the non-compliance of the applicant’s Appeal Brief, other than that the Examiner attached a copy of the Board’s Remand Order.

The Board’s Remand Order indicates that the deficiencies of the applicant’s Appeal Brief are that the applicant’s Appeal Brief:

1. does not contain the “Summary of Claimed Subject Matter” (37 C.F.R. §41.37 (c) (v)), which is required to contain a “concise explanation of the subject matter defined in each of the independent claims involved in the appeal, which shall refer to the specification by page and line number and to the drawing, if any, by reference characters,” and also contains requirements regarding “every means plus function and step plus function as permitted by 35 U.S.C. 112, sixth paragraph;”
2. does not contain the “Grounds for Rejection to be Reviewed on Appeal” (37 C.F.R. §41.37 (c) (vi);
3. does not contain an “Evidence Appendix” (37 C.F.R. §41.37 (c) (ix); and,
4. does not contain a “Related Proceedings Appendix” (37. C.F.R. §41.37 (x).

Regarding the deficiency noted in paragraph 1 above, applicant asserts that 37 C.F.R. §41.37 (c) (v) is inapplicable to applicant’s Appeal Brief under 37 C.F.R. §41.37

(c) (1).² Even more to the point, however, applicant submits that, except for the heading of the section “Summary of the Invention”, in lieu of the required “Summary of the Claimed Subject Matter,” applicant’s Appeal Brief complies with 37 C.F.R. §41.37(v). It identifies the subject matter of the claims at issue (through discussion of Claims 1 and 11 specifically and with reference to the process steps added in the independent claims of added in the Reissue Application and points out, by location in the patent subject to this merged Reexamination/Reissue proceeding, the support for the claimed subject matter.³ There are no 35 U.S.C. §112, sixth paragraph claims.

Applicant has changed the heading for this section from “Summary of the Invention” to “Summary of the Claimed Subject Matter,” in applicant’s Replacement Appeal Brief, submitted with this Response to the Notification of Non-Compliant Appeal Brief, and has added specific reference to the other independent Claims.

Regarding the deficiency noted in paragraph 2 above, applicant submits that applicant’s Appeal Brief, with the exception of the heading “Issues,” in lieu of the required “Grounds for Rejection to be Reviewed on Appeal,” complies with 37 C.F.R. §41.37 (vi), assuming even that this section is applicable to applicant’s appeal brief under 37 C.F.R. §41.37 (c) (1), as noted above.

Applicant has changed the heading in applicant’s Corrected Appeal Brief, submitted with this Response to Notification of Non-Compliant Appeal Brief, from “Issues” to the required “Grounds for Rejection to be Reviewed on Appeal” and has grammatically changed the section to contain “grounds” rather than “issues”. The “grounds” substantively remain the same as the previously stated “issues” however.

Regarding the deficiency noted under paragraph 3 above, applicant submits that except for the required heading “Evidence Appendix” applicant’s Appeal Brief complies with 37 C.F.R. §41.37 (c) (ix). Applicant submitted three evidentiary appendices labeled “Appendix B Thoreson Declaration”; “Appendix C Winner Declaration;” and “Appendix D Filing Cover Letter.”

Applicant has added a new Appendix Cover Sheet labeled “Evidence Appendix” and has changed the labeling of the previously submitted appendices to the applicant’s

² The rule states “a brief filed by an appellant who is not represented by a registered practitioner need only substantially comply with paragraphs (c)(1)(i) through (c) (1) (iv) and (c) (1) (vii) through (c) (1) (x).”

³ Nevertheless applicant has added specific reference to the recitations of other independent claims.

Replacement Appeal Brief, submitted with this Response to Notification of Non-Compliant Appeal Brief, to “Evidence Appendix B (1) Thoreson Declaration;” “Evidence Appendix B (2) Winner Declaration; and “Evidence Appendix B(3) Filing Cover Letter.”

Regarding the deficiency noted in paragraph 4 above, applicant submits that applicant’s Appeal Brief fully complies with 37 C.F.R. §41.37 (c) (x). Applicant submitted an Appendix D, “Related Proceedings” with the indication that there were “None.”

In light of the relabeling of the portions of the “Evidence Appendix” applicant has relabeled the “Related Proceedings Appendix,” submitted with applicant’s Replacement Appeal Brief submitted in Response to the Notification of Non-Compliant Appeal Brief, as “Appendix C Related Proceedings.”

The Board’s Remand Order also noted that the section “Grouping of Claims” is no longer required by 37 C.F.R. §41.37, and the information included by applicant in applicant’s Appeal Brief under the heading “Grouping of Claims” should be included under “Argument.” Applicant has made the required change in applicant’s Replacement Appeal Brief submitted with this Response to the Notification of Non-Compliant Appeal Brief.

Summary

Applicant submits that applicant’s Appeal Brief was in substantial compliance with the requirements of 37 C.F.R. 41.37 (c) except for heading labels, Appendix titles and the inclusion of two sentences under an obsolete heading as opposed to inclusion of these two sentences under the heading “Argument.” Applicant has made the changes to the section headings in applicant’s Replacement Appeal Brief submitted with this Response to Notification of Non-Compliant Appeal Brief. The changes serve only to place the Corrected Appeal Brief in technical and formal compliance with 37 C.F.R. §41.37 (c), without any change to the substance of applicant’s Appeal Brief. For these reasons, applicant submits that it would not be proper for the Examiner to supplement the substance of the arguments contained in the previously submitted Examiner’s Answer to applicant’s Appeal Brief in any supplemental Examiner’s Answer. The changes made to the applicant’s Corrected Appeal Brief were purely technical and procedural (correction

of mere formalities) in nature, to correct the form of, but in no way the substance of, the previously submitted applicant's Appeal Brief.

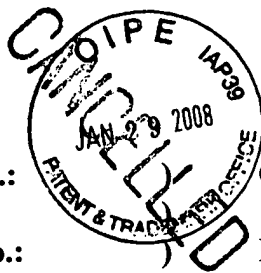
It should not be proper for the Examiner to revise substantive positions taken and arguments made in response to the originally filed applicant's Appeal Brief, merely because of the presence of the noted technical and procedural deficiencies in the originally filed applicant's Appeal Brief noted and addressed above. Furthermore, the Board's Remand Order itself orders the Examiner to "submit an amended examiner's answer, if needed." Applicant submits that the changes made to the applicant's Replacement Appeal Brief, do not render necessary any substantive changes to the Examiner's Answer as previously entered by the Examiner.

Respectfully Submitted,

A handwritten signature in black ink that reads "Bruce M. Dickens". The signature is written in a cursive, flowing style.

Bruce M. Dickens

949-857-1487



Reissue Application No.:

09/512,592

United States Patent No.:

5,806,063

Issued: September 8, 1998

Applicant:

Dickens-Soeder2000,LLC

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Filed: May 16, 2000

Reexamination Proceeding

90/006,541

Filed February 2, 2003

Group Art Unit: 2161

Examiner: LeRoux, E.

Applicant's Replacement Appeal Brief

Real Party in Interest

Applicant, Bruce Dickens, files this appeal Brief individually as the inventor of United states Patent No. 5,806,063, ("the Dickens Patent") in this merged Reissue/*Ex Parte* Reexamination proceeding. The patent is currently owned by a California LLC, Dickens-Soeder2000, of which applicant is a member.

Related Appeals and Interferences

There are no pending related appeals and interferences.

Status of the Claims

Claims 1-76 are pending in the above captioned cases. Claims 1-76 have been rejected. Claims 1-76 are on appeal.

Status of Amendments

Claims 16-76 were added in the Reissue Application, Ser. No. 09/512,592, to the claims as allowed in the Dickens Patent. Claim 10 was amended during the above captioned proceedings in a Response to an Office Action dated in June of 2002, which was filed in December of 2002, in order to correct a discrepancy between the claim and the disclosure of the Dickens patent. Claim 54 was amended in a Response (February 2002) to correct a typographical error omitting a word from the claim as filed.

Summary of the Claimed Subject Matter

The present invention relates to the problem of dealing with legacy databases wherein data is stored in a form that is ambiguous as to century, the so-called Y2K problem much of note at the recent turn of the century. As described and claimed in the original application, as amended, and as claimed in the claims added in the Reissue Application, the invention relates to, e.g., considering the language of issued claim 11, “[a] method of processing dates in a database, comprising the steps of providing a database with dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of dates falling within a 10-decade period of time which includes the decade beginning in the year 2000; selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database; determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; reformatting each date in the form $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$ to facilitate further processing of the dates; and sorting the dates in the form $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$.” (Col. 2, line 44-Col. 3, line 55) Claim 1 is a similar claim reciting “processing symbolic representations of dates”.

This process is done, as added claims in the Reissue Application recite more explicitly, (1) on all of the dates in the database prior to the step of, e.g., sorting (or other manipulation, also claimed to be other forms of manipulation besides sorting, more explicitly in the added claims), as recited in claims 16, 24, 31, 32, 33, 34, 60, 61, 62, 63,

64, 65, 66, 67, 68, 69, 70, 71, 72, 75 and 76 (Abstract, Col. 1, line 66 - Col. 2, line 3, Col. 2, lines 24-27, Col. 3, lines 49-60, Exhibit A, and Claims 1 and 11:determining ... for each ...”), (2) without modification of the original date data in the existing date data fields of the existing legacy database itself, as recited in Claims 16, 24, 31, 32, 33, 34, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 75 and 76 (Col. 1, lines 31-45, lines 51-56, Exhibit A); (3) outside of the existing date data field(s) in question in the original legacy database itself, as recited in claims 60, 61, 62, 63, 64 and 65 (Col. 1, lines 31-40, Col. 2, lines 19-21, Col. 3, lines 49-60, Col. 3, lines 46-48, Exhibit A), (4) for the purpose of facilitating the further processing of all of the dates and all of the data associated with the dates, e.g., by sorting, as recited in claims 16, 24, 31, 32, 33, 34, 66, 67, 68, 69, 70 and 71 (Col. 3, lines 46-48), and (5) this manipulation is done collectively on all of the dates extracted from the legacy database and converted according to the claimed invention, as recited in claims 16, 24, 31, 32, 33, 34, 69, 72, 75 and 76 (Abstract, Col. 1, line 66- Col. 2, line 3, Col. 2, lines 24-27 and Claim 1, :determining ... for each ...”). Thus, the invention utilizes aspects of a known technique called “windowing” to enable the utilization of a specific kind of data stored in a specific manner in a database in a specific way as recited in the original and Reissue Application claims.

Grounds for Rejection to be Reviewed on Appeal

Claims 1-76 in the above captioned merged proceeding were rejected under 35 U.S.C. §103(a).

Claims 1-76 in the above captioned merged proceeding were rejected under 35 U.S.C. §112 second paragraphs.

Claims 16-67, 69-73, and 75-76 were rejected under 35 U.S. C. §112, first paragraph.

The Examiner objected to certain documents filed in the above captioned proceeding.

Argument

Background

On September 8, 1998 over seven years ago, United States Patent No. 5806063, entitled DATE FORMATTING AND SORTING FOR DATES SPANNING THE TURN OF THE CENTURY was issued to Boeing Corporation ("Boeing") on an application filed by Boeing on October 3, 1996 ("the Dickens patent"). The Dickens patent, the subject of the above captioned merged Reissue Application and Reexamination proceedings, was subsequently assigned to Mr. Bruce M. Dickens, the inventor, who was then and still is an employee of Boeing (now as an employee of Boeing's subsidiary McDonnell Douglas).

Claims 1-15 stand together and the newly added Reissue Applications claims stand together as having recitations further defining them over the prior art than claims 1-15 are defined over the prior art. Claims 16-67, 69-73, and 75-76 stand together as being rejected under 35 U.S. C. §112, first paragraph.

As noted above, the Dickens patent relates to specific implementations of aspects of a technique called windowing to automatically solve the so-called Y2K problem¹, e.g., for use with large and complex legacy databases for which the original software was most likely "home grown" and thus, as was characteristic of such systems, mainly in large companies with internal information technology departments, complex, poorly documented. It was, and is, thus very difficult to modify, supplement, complement, etc., in order to solve the Y2K problem.

As the year two thousand approached companies began to realize the magnitude of the Y2K issues facing them and began to react, even though in many cases belatedly only in the late 1990's. Faced with the Hobson's choice of essentially completely or partially replacing computer systems and databases, with all of the problems in terms of time, resources, down times, insuring accuracy of copied data from legacy databases and

¹ The so-called Y2K problem arises from the long-standing use of two characters only to represent a year datum in date fields, e.g., of DD/MM/YY or like formats, starting initially under the motivation of saving critical memory space for records needing date information containing year datum. Such formats were still included later when memory became less expensive, e.g., due to the problems with changing over legacy databases and, e.g., their associated user interface and applications software and perhaps also, e.g., links to other existing databases or fields in the same database or other databases. These and like problems are of monumental difficulty to resolve in terms of time, expense, resources, down time and other similar problems in resolving the Y2K problem vis-a-vis existing legacy databases.

like costly and mostly risky or very ineffective solutions to the Y2K problem, the inventor applicant came up with the solution of the Dickens Patent. applicant also believes that many companies, e.g., those with massive existing legacy databases, faced with the same choices chose to implement the method(s) disclosed and claimed in the Dickens patent and claims filed in the inventor applicant's application to Reissue the Dickens patent.

After failing to obtain much response as an individual patent owner to written suggestions to companies that a license to the Dickens patent would be appropriate, the applicant inventor, Mr. Dickens hired counsel to prepare and submit license demand letters to "Fortune Five Hundred" and "Information Technology Five Hundred" companies in November of 1999 in advance of the turn of the century.

This proposed licensing program immediately drew heavy criticism, e.g., from the information technology industry, e.g., as evidenced by blistering comments, e.g., on the web-site of the Information Technology Association of America. The attacks were leveled at Congress and the patent system itself for allowing so-called "software" and/or "business method" patents. They also attacked the Patent Office for issuing them, including the quality and competency of the review thereof by the Examiners in the Patent Office. And, also attacked was the validity of the issuance of the Dickens patent in particular.

Particularly validity of the Dickens patent was attacked on the Information Technologies Association of America ("ITAA") web-site, but also elsewhere in the public discourse on the subject. Public attacks on the validity of the Dickens patent were based on two prior art references, United States Patent No. 5,630,118 ("Shaughnessy") which was before the Examiner in the original prosecution of the Dickens patent, and an article B. Ohms, *Computer Processing of Dates Outside of the Twentieth Century*, IBM Systems Journal, Vol. 25, No. 2, 1986 ("Ohms"), which was not. Examiner Amesbury, one of the most experienced of software/database Patent Examiners then in the Patent Office, allowed the Dickens patent.

Within weeks, and before the turn of the century, on December 21, 1999, the Commissioner, in the very unusual step for the Commissioner, ordered a Reexamination of the Dickens patent on his own volition, Reexamination No. 90/005592. Perhaps not

surprisingly, it was based on a substantially new question of patentability raised by either Shaughnessy or Ohms.

A first anonymous Request for Reexamination that was granted by an order of March 10, 2000 became Reexamination 90/005628, also based on Shaughnessy and Ohms. By Order of August 10, 2000 a second anonymous Request for Reexamination became, Reexamination 90/005727, based on the same references and adding a new references, Booth, et al., *Clipper 5 A Developer's Guide*, M&T Books (1991) ("Booth") plus a Japanese Laid Open Application ("Hazama").²

The inventor applicant formed Dickens-Soeder2000 joining an existing entity partly owned by Thomas P. Soeder, inventor/patentee of certain other Y2K solution patents, to try to license a package of Y2K solution patents (the Dickens patent and Soeder patents"). Dickens-Soeder2000 is the current owner of the Dickens patent. The patent owner filed an application to Reissue the Dickens patent, Ser. No. 09/512592 on February 23, 2000.

The three pending Reexamination procedures and the Reissue Application were merged into one proceeding on November 6, 2000.

In a Housekeeping Amendment of February 23, 2000, applicant attempted to add to the Reissue Application an Exhibit A that was filed with the original application and referenced in the Specification as printed when the Dickens patent issued, but was not printed in the Patent as issued.

In a first Office Action (September 2001) in the above captioned merged proceedings the Examiner rejected claims 1-76 based upon 35 U.S.C. §102(e) (as anticipated by Shaughnessy, 35 U.S.C. §103(a) (as unpatentable over Shaughnessy in view of Hazawa or Booth or over Ohms in view of Hazama or Booth) and 35 U.S.C. §112, first and second paragraphs. The Oath/Declaration was objected to as was the Assent of Assignee. The Examiner objected to the way in which the applicant attempted to correct the fact the Exhibit A was not published with the Dickens patent as issued, but did not object to Exhibit A as new matter or assert that Exhibit A was not in fact filed with the application leading to the Dickens patent. The Office Action was 176 pages

² An earlier version of Booth was before Examiner Amesbury.

long, essentially regurgitating verbatim rejections based on §§102 and 103 for two different combinations of the main and supporting references for each of various groups of claims.

In a Response (February 2002) to the first Office Action (September 2001) applicant submitted a new Reissue Declaration signed by applicant as inventor including a statement of claim language that rendered the patent wholly or partly inoperative or invalid. Also submitted was a consent of Assignee signed on behalf of the owner of the '063 patent, Dickens-Soeder2000 and a Supplemental Certificate under 37 C.F.R. §3.73 and supporting documentation showing the chain of assignments to Dickens-Soeder2000. Also submitted was a declaration that Mr. Dickens was authorized to sign on behalf of Dickens-Soeder 2000.

In a second Office Action (July 2003), of over 200 pages in length, the Examiner then rejected all claims under 35 U.S.C. §103(a) virtually regurgitating the same assertions as made in the first Office Action, with limited and relatively insubstantial additional comments, and for the first time adding 35 U.S.C. §112 rejections. Claims 16-67, 69-73 and 75-77 were rejected under 35 U.S.C. §112, first paragraph as not being supported by an enabling disclosure in the Specification. Claims 1-76 were rejected under 35 U.S.C. §112, second paragraph as being indefinite. The Examiner then referred several sets of claims A-J as having various different asserted deficiencies under 35 U.S.C. §112.

The Office Action also essentially repeated verbatim the Objections to the Oath and Declaration and under 37 C.F.R. §1.172 (a) to which applicant had already responded. The Examiner added some "general statements", headed "Examiner's Remarks," but did not apply any of these to reject any specific claim under any specific section of the Patent Statute.

Applicant also addressed the so-called Examiner's Remarks at pp. 64-86. Applicant also addressed the arguments of the Examiner that applicable claims were not supported by the Specification as originally filed, showing that they were, even without the content of Exhibit A, and also showing that Exhibit A, filed with the original application for the Dickens patent, but not printed in the Dickens patent as issued, gave

the Specification even further support for the claims as originally filed and added in the Reissue Application. (Response (December 2002) pp. 16-29 and 54-65)

In a response also to the first and second Office Actions applicant has demonstrated that there was no obviousness. This was because, but that the references were not anticipatory, but in fact taught away, and the Examiner had not presented a *prima facie* case for obviousness both because all the elements of the claimed inventions were not in the purported combinations and there was no demonstrated suggestion to combine of reasonable likelihood of reaching the claimed inventions. Also in response to the second Office Action applicant submitted a Declaration of a persons qualifying as an experts in the art supporting both applicants arguments as to non-obviousness and in support of the fact that the patent as issued supported the claims added in the Reissue Application and/or the patent as it should have issued with Exhibit A that was filed with the application as filed also supported the claims added by the Reissue Application.

In a Final Office Action in June 2003 the Examiner found applicant's arguments unpersuasive. The Examiner also found the Declaration of an Expert witness (Toreson) unpersuasive.

Applicant submitted a Notice of Appeal and then, after an RCE, filed in order to submit further evidence regarding the disclosure contained in Exhibit A to the Dickens patent Specification, applicant submitted another Declaration of an expert witness (Winner).

Another anonymous request for Reexamination was submitted and a further Reexamination declared (90/006,541) and merged into the above captioned proceeding. This further Reexamination was based a substantial new question of patentability raised by a Japanese Published Patent Application No. 06-103133 ("Saka"). In the ensuing Office Action of October 2004 Saka was nowhere cited as a basis for rejection of a single claim pending in the above captioned action.³

In the first Office Action (October 2004) after the RCE a new Examiner repeated verbatim the rejections made in the Office Action of July 2002. In fact it appeared that

³ In the Office Action of June 2005 the current Examiner admitted that there was no additional basis for rejection based upon Saka, at pp. 18-19. Applicant repeats its prior request for the dismissal of the 90/006,541 Reexamination, because it presents no substantial new question of patentability.

the Examiner merely scanned the July 2002 Office Action document and inserted the scanned version of it into the October 2004 Office Action replete with formatting errors (e.g., at p. 18 where paragraph 11 is not started on a new line, and the same for the paragraph beginning with “additionally” on p. 19 of the July 2002 Office Action), and footnotes mistakenly inserted as text in the document, e.g., at p. 9 of the October 2004 Office Action where the footnote 2 is inserted into the text as an added character after the words “current date” and the actual text of the footnote is inserted into the main text after the last word on the corresponding page 19 of the July 2002 Office Action “thereby,” at lines 19-21 of the October 2004 Office Action.⁴

In a final Office Action of June 10, 2005 the Examiner has simply incorporated by reference the rejections made in the October 2004 Office Action, which, as noted simply repeat the rejections of the July 2002 Office Action.⁵

Incorporation By Reference

Applicant believes that the arguments contained in referenced portions of Applicant’s Responses of February and December 2002 cited herein sufficiently address the assertions of the Examiners up through the Final Office Action of October 2005, the final two Office Actions, as noted above, being simply regurgitations of the Office Action of July 2002. Applicant hereby incorporates these responses as referenced in this Brief and all of the Response of December 2002 whether referenced or not herein.

Applicable Law

Applicant also believes that the discussion of the applicable law in the Response of December 2002, pp. 3-15 and elsewhere in other portions of that Response cited herein

⁴ Actually only the portion of the footnote from the July 2002 Office Action is inserted here, with the remainder and the following footnote inserted on the next page (20 of the October 2004 Office Action) after the last words on that page “combine the”, i.e., lines 15-17 on page 20 of the October 2004 Office Action.

⁵ Also, the Examiner stated in the first paragraph of “Remarks” by the Examiner in the Office Action of June 2005 that it wasn’t necessary to make any additional or other arguments because the claims have not been amended since the July 2002 Office Action.

adequately presents the law applicable to the issues in this Appeal and incorporates them by reference.

Specific Rejections

Reissue Applications

The Examiner has incorporated an objection to the form of the Reissue Application submitted in the above captioned action from the October 2004 Office action. This is a repeat of an objection/rejection that has appeared in every Office Action in this case, despite applicant having submitted a new declaration, which specifically references at least one error in the patent, i.e., that applicant claims more or less than could have been claimed, to wit :

Claim 1 recites ‘according to a format wherein M1M2 is the numerical month designator, D1D2 is the numerical data designator’

The invention is broader than this recitation and can include, e.g., a month and date designator other than as recited, e.g., in Julian format, so long as there is ,e.g., a year designator such as Y1Y2.

Contrary to the Examiner’s statement on p. 15 of the Office Action of June 2005, applicant believes that applicant has submitted a substitute Declaration that does refer to the amendment to the Dickens application.

New Matter

The examiner has asserted that Exhibit A adds new matter. Applicant asserts that Exhibit A was filed with the application for the Dickens patent as originally filed and cannot, therefore be new matter. Applicant has previously submitted evidence that Exhibit A was so filed, attached to the December 2002 Response of applicant and as Appendix D to this Appeal Brief. As noted in A Response of applicant filed in February of 2005:

The Examiner has objected to Exhibit A as new matter. Exhibit A was submitted previously along with evidence that it was filed with the Specification as originally filed. The Examiner has not stated why this is not sufficient to show that Exhibit A was filed with the application that led t the above referenced patent

originally. Having been submitted with the application that led to the above referenced patent as filed, it is not new matter.

The Examiner has still not indicated why the evidence submitted by applicant is not sufficient to indicate that Exhibit A was filed with the application for the Dickens patent as originally filed.

Further, in a submission in the application as originally filed for the Dickens patent, a Declaration of Dickens was submitted with an attachment Exhibit G, that was indicated to be a copy of the Exhibit A, and it was stated to be the Exhibit A which was filed with the original application for the Dickens patent. The Examiner did not take issue with such representation.

§112 Rejections

Claims 16-67, 69-73 and 75-76

Claims 16-67, 69-73 and 75-76 stand rejected under 35 U.S.C. §112, first paragraph as set forth in paragraphs 5-9 of the October 2004 Office Action which correspond to paragraphs 5-9 of the Office Action of July 2002, and which are incorporated by reference in the June 2005 Office Action which is the subject of this appeal.

Pages 16-29 of the Response of December 2002 discusses the disclosure of the Dickens patent and the interpretations thereof in the record of the original prosecution and demonstrate that the inventions as claimed were contained in the Dickens patent application as originally filed, whether taking Exhibit A into account or not. Applicant submits that the Declarations of Toreson and winner also support applicants position in this regard. Applicant also submits that the addition of Exhibit A, further supports these claims, as is also supported by the Winner Declaration.

Claims 1-76

Claims 1-76 have been rejected under 35 U.S.C. §112, second paragraph as being indefinite.

At pages 57-65 of the Response of Applicant of December 2002 applicant has addressed these specific rejections of the Examiner as to various groups of claims.

Claims 1-3, 5, 7 and 9-10

Claims 1-3, 5, 7 and 9-10 stand rejected under 35 U.S.C. §103(a) as unpatentable over Shaughnessy in view of Hazama as set forth in Paragraphs 8-9 of the Office Action of October 2004 which repeat paragraphs 8-9 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

At pages 9-12 of the Response of February 2002 applicant explained why the Shaughnessy reference, considered by the original Examiner, discloses a solution to the Y2K problem which, while employing windowing, is remarkably different from what is recited in the claims of the '063 patent and the reissue claims. Specific elements of the claims that are not found in Shaughnessy were discussed at pages 12-13 as to claims 1-3, 5, 7, and 9-10.

On pages 14-16 of the Response of February 2002 applicant explained how the teachings of Hazama are no better than those of Shaughnessy in regard to the invention as claimed and specifically what recitations of the claims 1-3, 5, 7, and 9-10 are not found in the combination of Hazama and Shaughnessy.

Similar arguments are made at pp. 33-40 of the December 2002 Response of Applicant.

Claims 4,6 and 8

Claims 4, 6 and 8 stand rejected under 35 U.S.C. §103(a) as unpatentable over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 10 of the October 2004 Office Action which repeats paragraph 10 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

On pages 16-19 of the February 2002 Response applicant explained why Booth not only does not propose a solution to the Y2K problem as claimed in the claims of the '063 patent, but also does not even store data in a database in a form that is subject to the Y2K ambiguity problem solved by the claimed methods of the '063 patent. Booth stores data in a format that does not use the two digit (Y₁Y₂) format but rather a number that includes all of the year data (century in addition to the portion of the date data represented by the Y₁Y₂ two digit date data format of the claims). Specific recitations of the claims 4,

6 and 8 not shown in Booth are also noted on pages 20-21 of the February 2002 Response.

Similar arguments are made at pp. 40-42 of the December 2002 Response of applicant.

Claims 11-18, 20, 22 and 24-25

Claims 11-18, 20, 22 and 24-25 stand rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama⁶ as set forth in pages 18-28 of the October 2004 Office Action which repeats Paragraphs 11-12 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

On pages 27-28 of the February 2002 Response of applicant, these assertions of the Examiner are addressed.

Similar arguments are made at pp. 42-45 of the December 2002 Response of applicant.

Claims 19, 21 and 23

Claims 19, 21 and 23 stand rejected under 35 U.S.C. §103(a) as unpatentable over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 13 of the October 2004 Office Action which repeats Paragraph 13 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

On pages 27-28 of the February 2002 Response of applicant, these assertions of the Examiner are addressed.

Similar arguments are contained on p. 45 of the December 2002 Response of applicant.

Claims 26-30

Claims 26-30 stand rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in paragraph 13 of the October 2004 Office Action which

⁶ Actually only the rejection of Claims 11-15 is based on Shaughnessy, Hazama and Booth (Paragraph 11 of the July 2002 Office Action and pages 18-23 of the October 2004 Office Action) and the rejection of claims 16-18, 20, 22 and 24-25 is based only on Shaughnessy and Hazama (Paragraph 12 of the July 2002 Office Action and pp. 24-28 of the October 2004 Office Action).

repeats paragraph 13 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicants assertions in response to this position of the examiner can be found at p. 30 of the February 2002 Response of Applicant and p. 46 of the December 2002 Response of applicant.

Claim 31

Claim 31 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 15 of the October 2004 Office Action which repeats Paragraph 15 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 30-31 of the February 2002 Response of Applicant and p. 46-47 of the December 2002 Response of applicant.

Claim 32

Claim 32 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 16 of the October 2004 Office Action which repeats Paragraph 16 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 30-31 of the February 2002 Response of Applicant and p. 46-47 of the December 2002 Response of applicant.

Claim 33

Claim 33 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 17 of the October 2004 Office Action which repeats Paragraph 17 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 30-31 of the February 2002 Response of Applicant and p. 46-47 of the December 2002 Response of applicant.

Claims 34-59

Claims 34-59 stand rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 18 of the October 2004 Office Action which repeats Paragraph 18 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 31-35 of the February 2002 Response of Applicant and p. 47-48 of the December 2002 Response of applicant.

Claim 60

Claim 60 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 19 of the October 2004 Office Action which repeats Paragraph 19 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 35-37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 61

Claim 61 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 20 of the October 2004 Office Action which repeats Paragraph 20 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 35-37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 62

Claim 62 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 21 of the October 2004 Office Action which repeats Paragraph 21 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 35-37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 63

Claim 63 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 22 of the October 2004 Office Action which repeats Paragraph 22 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 35-37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 64

Claim 64 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 23 of the October 2004 Office Action which repeats Paragraph 23 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 35-37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claims 65-66

Claims 65-66 stand rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in pages 72-79 of the October 2004 Office Action which repeats Paragraphs 24 and 25⁷ of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 67

Claim 67 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 26 of the October 2004 Office Action which repeats Paragraph 26 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 68

Claim 68 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 27 of the October 2004 Office Action which repeats Paragraph 27 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

⁷ Actually only the rejection of Claim 65 is based on Shaughnessy, Hazama and booth (Paragraph 24 of the July 2002 Office Action and pp. 72-76 of the October 2004 Office Action), while the rejection of Claim 66 (Paragraph 25 of the July 2002 Office Action and pp 76-79 of the October 2004 Office Action) is based only on Shaughnessy and Hazama.

Claim 69

Claim 69 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 28 of the October 2004 Office Action which repeats Paragraph 28 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 37 of the February 2002 Response of Applicant and p. 48-49 of the December 2002 Response of applicant.

Claim 70

Claim 70 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 29 of the October 2004 Office Action which repeats Paragraph 29 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 71

Claim 71 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 30 of the October 2004 Office Action which repeats Paragraph 30 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 72

Claim 72 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 31 of the October 2004 Office Action which repeats

Paragraph 31 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 73

Claim 73 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 32 of the October 2004 Office Action which repeats Paragraph 32 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 74

Claim 74 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 33 of the October 2004 Office Action which repeats Paragraph 33 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 75

Claim 75 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama as set forth in Paragraph 34 of the October 2004 Office Action which repeats Paragraph 34 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claim 76

Claim 76 stands rejected under 35 U.S.C. §103(a) over Shaughnessy in view of Hazama and Booth as set forth in Paragraph 35 of the October 2004 Office Action which repeats Paragraph 35 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

Applicant's assertions in response to this position of the examiner can be found at p. 38-39 of the February 2002 Response of Applicant and p. 49-51 of the December 2002 Response of applicant.

Claims 1-3-5, 7 and 9-10

Claims 1-3-5, 7 and 9-10 stand rejected under 35 U.S.C. §103(a) as unpatentable over Ohms in view of Hazama as set forth in Paragraphs 8-9 of the Office Action of October 2004 which repeat Paragraphs 36 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

At pp. 22-25 of the Response of February 2002 applicant explained why the Ohms reference discloses a solution to the Y2K problem which, while employing windowing for a completely different purpose than does the claimed method of the Dickens patent, is remarkably different from what is recited in the claims of the dickens patent and the reissue claims. Specific elements of the claims that are not found in Ohms were discussed in those pages as to claims 1-3, 5, 7, and 9-10. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 4,6 and 8

Claims 4, 6 and 8 stand rejected under 35 U.S.C. §103(a) as unpatentable over Ohms in view of Hazama and Booth as set forth in Paragraph 37 of the October 2004 Office Action which repeats paragraph 37 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 11-15

Claims 11-15 stand rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth, as set for in Paragraph 38 of the July 2002 Office Action which repeats Paragraph 38 of the Office action of July 2002, and which is incorporated by reference in the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 16-18, 20, 22 and 24-25

Claims 16-18, 20, 22 and 24-25 stand rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 39 of the October 2004 Office Action which repeats Paragraph 39 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 19, 21 and 23

Claims 19, 21 and 23 stand rejected under 35 U.S.C. §103(a) as unpatentable over Ohms in view of Hazama and Booth as set forth in Paragraph 40 of the October 2004 Office Action which repeats Paragraph 40 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 26-30

Claims 26-30 stand rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in paragraph 41 of the October 2004 Office Action which repeats paragraph 41 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 31⁸

Claim 31 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 42 of the October 2004 Office Action which repeats Paragraph 42 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 32

⁸ The Examiner in the June 2005 Office Action omitted the rejection of Claim 31 over Ohms in view of Hazama (Paragraph 42 of the October 2004 Office Action and missing from the October 2004 Office Action).

Claim 32 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 43 of the October 2004 Office Action which repeats Paragraph 43 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 33

Claim 33 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 44 of the October 2004 Office Action which repeats Paragraph 44 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claims 34-59

Claims 34-59 stand rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 45 of the October 2004 Office Action which repeats Paragraph 45 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 60

Claim 60 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 46 of the October 2004 Office Action which repeats

Paragraph 46 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 61

Claim 61 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 47 of the October 2004 Office Action which repeats Paragraph 47 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 62

Claim 62 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 48 of the October 2004 Office Action which repeats Paragraph 48 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 63

Claim 63 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 49 of the October 2004 Office Action which repeats Paragraph 49 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 64

Claim 64 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 50 of the October 2004 Office Action which repeats Paragraph 50 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 65

Claims 65 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth Paragraph 51 of the October 2004 Office Action which repeats Paragraph 51 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 66

Claims 66 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth Paragraph 52 of the October 2004 Office Action which repeats Paragraph 52 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December

2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 67

Claim 67 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 53 of the October 2004 Office Action which repeats Paragraph 53 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 68

Claim 68 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 54 of the October 2004 Office Action which repeats Paragraph 54 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 69

Claim 69 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 55 of the October 2004 Office Action which repeats Paragraph 55 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 70

Claim 70 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 56 of the October 2004 Office Action which repeats Paragraph 56 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 71

Claim 71 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 57 of the October 2004 Office Action which repeats Paragraph 57 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 72

Claim 72 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 58 of the October 2004 Office Action which repeats Paragraph 58 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 73

Claim 73 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama as set forth in Paragraph 59 of the October 2004 Office Action which repeats Paragraph

59 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 74

Claim 74 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 60 of the October 2004 Office Action which repeats Paragraph 60 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 75

Claim 75 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 61 of the October 2004 Office Action which repeats Paragraph 61 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Claim 76

Claim 76 stands rejected under 35 U.S.C. §103(a) over Ohms in view of Hazama and Booth as set forth in Paragraph 62 of the October 2004 Office Action which repeats Paragraph 62 of the Office Action of July 2002, and which is incorporated by reference into the June 2005 Office Action which is the subject of this appeal.

The above noted portions of the February 2002 Response of applicant discuss also the rejections based on Ohms as the primary reference. Pages 51-54 of the December 2002 Response of applicant discuss the rejections based on Ohms as the primary reference.

Examiner's General Statements

The July 2002 Office Action contained a number of general statements of the Examiner not specifically incorporated as rejections under any section of the statute and not in the June 2005 Office Action which is the subject of this appeal. Nevertheless applicant refers the Board to the discussion of these statements by applicant at pp. 29-33 of the December 2002 Response of applicant. In addition, in the October 2004 Office Action in a section denoted REMARKS the Examiner made certain other arguments that Applicant addressed at pp. 65-87.

Paragraph 72 of the July 2002 Office Action contains the Examiner's argument that the assertions made by applicant and the Declaration of Toreson (an also therefore Winner later) fail to point out how the Specification supports claim language. Applicant submits that this support is adequately demonstrated in the arguments previously submitted by applicant as referenced above.

In paragraph 73 of the July 2002 Office Action the Examiner seems to be objecting to applicants reliance on Exhibit A, because Exhibit A has not been properly inserted into the Reissue/Reexamination proceeding. The Examiner is objecting to the manner in which applicant had attempted to do so. Applicant submits that this does not constitute an assertion that Exhibit A was not filed with the application as originally filed.

In fact the Examiner here simply asserts that the applicant has failed to point out what parts of the Exhibit A support the claim language at issue. In this regard, if not sufficiently explained elsewhere, applicant submits that Exhibit A shows source code for a program which supports the language in the referenced claims 16-25, 31-33, 66-67, 72, and 36-43 regarding "collectively processing" or "collectively further processing."

The Declaration of Winner, e.g., in ¶¶ 131, 165, 169, 173, 175, 179, 209, 210, 211 and 212 is more specific in this regard.

Paragraph 74 of the July 2002 Office Action contains the assertion that applicant has made only “general allegations” regarding adequacy of the disclosure of the dickens patent, with or without Appendix A. Applicant respectfully submits that the above noted arguments of applicant along with the Declarations of Toreson and Winner are specific in setting forth how the claimed invention is supported by the Specification of the Dickens patent, even without Exhibit A, but even the more so with that Exhibit A.

In paragraph 75 of the July 2002 Office Action the Examiner admits that the specification supports the claim recitation.

Paragraphs 76 and 77 of the July 2002 Office Action reflect further disagreements with the Examiner on the interpretation of the Shaughnessy reference, which applicant also submits is adequately addressed in the prior arguments of applicant referenced above.

Finally, as to Exhibit A, the Examiner has repeated what was first asserted in the Office Action of October 2004 (pp. 1-2), i.e., that Exhibit A constituted new matter.⁹ Prior to that time the Examiner had treated Exhibit A as if it were part of the original disclosure but improperly inserted into the Specification in the Reissue Application by certificate of correction as opposed to a substitute specification. Applicant has filed a Substitute Specification incorporating Exhibit A. Applicant has submitted evidence that the Exhibit A was sent to the Patent Office with the originally filed application.¹⁰

The Examiner has simply asserted that Exhibit A adds new matter, but does not disagree that Exhibit A was part of the application as filed. Given Exhibit A was part of the application as originally filed in 1996, applicant asserts that it does not add new matter.

Conclusion

For the above stated reasons, applicant submits that claims 1-78 in the Reissue application should be allowed and the Reexamination proceedings dismissed.

⁹ In the same paragraph (p. 17), the Examiner commented that applicant had not indicated the specific correspondence in which the Examiner had indicated that a Certificate of correction was an improper way to put Exhibit B into the Reissue application (which was by the way the Office Action of July 2002, p. 2, ¶4)

¹⁰ In a Response in the original applications for the dickens patent, Applicants counsel in the original prosecution of the Dickens patent also referred to the fact that the Exhibit A had been filed with the

Respectfully submitted,

A handwritten signature in cursive script that reads "Bruce M. Dickens". The signature is written in black ink and is positioned above the printed name and phone number.

Bruce M. Dickens

949-857-1487

application (equivalent to an Exhibit G filed with an Affidavit of the inventor filed with that Response). the Examiner did not take issue with this assertion.



Reissue Application No.
09/512,592
United States Patent No.:
5,806,063
Issued: September 8, 1998
Applicant:
Dickens-Soeder2000,LLC
Reexamination Proceeding:
90/005,592
Filed: December 21, 1999
Reexamination Proceeding:
90/005,628
Filed: February 2, 2000
Reexamination Proceeding:
90/005,727
Filed: May 16, 2000
Reexamination Proceeding
90/006,541
Filed February 2, 2003

Group Art Unit: 2161

Examiner: Coby, F.

Applicant's Replacement Appeal Brief
Appendix A
Claims on Appeal

1. (Original) A method of processing symbolic representations of dates stored in a database, comprising the steps of

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of the date with the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$ to facilitate further processing of the dates.

2. (Original) The method of claim 1, wherein the 10-decade window includes the decade beginning in the year 2000.

3. (Original) The method of claim 2, wherein the step of determining includes the step of determining the first value as 20 and the second value as 19.

4. (Original) The method of claim 1, including an additional step, after the step of reformatting, of
 sorting the symbolic representations of dates.

5. (Original) The method of claim 1, wherein the step of reformatting includes the step of reformatting each symbolic representation of a date into the format $C_1 C_2, Y_1 Y_2, M_1 M_2$, and $D_1 D_2$.

6. (Original) The method of claim 5, including an additional step, after the step of reformatting, of
 sorting the symbolic representations of dates using a numerical-order sort.

7. (Original) The method of claim 1, wherein the step of providing a database includes the step of
 converting pre-existing date information having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator.

8. (Original) The method of claim 1, wherein the step of selecting includes the step of selecting $Y_A Y_B$ such that Y_B is 0 (zero).

9. (Original) The method of claim 1, including an additional step, after the step of reformatting, of
 storing the symbolic representation of dates and their associated information back into the database.

10. (Amended) The method of claim 9, including the additional step, after the step of reformatting, of

manipulating information in the database utilizing [having] the reformatted date information [therein].

11. A method of processing dates in a database, comprising the steps of

providing a database with dates stored therein according to a format wherein M_1 M_2 is the numerical month designator, D_1 D_2 is the numerical day designator, and Y_1 Y_2 is the numerical year designator, all of dates falling within a 10-decade period of time which includes the decade beginning in the year 2000;

selecting a 10-decade window with a Y_A Y_B value for the first decade of the window, Y_A Y_B being no later than the earliest C_1 C_2 Y_1 Y_2 year designator in the database;

determining a century designator C_1 C_2 for each date in the database, C_1 C_2 having a first value if Y_1 Y_2 is less than Y_A Y_B and having a second value if Y_1 Y_2 is equal to or greater than Y_A Y_B ;

reformatting each date in the form C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 to facilitate further processing of the dates; and

sorting the dates in the form C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 .

12. The method of claim 11, wherein the step of providing a database includes the step of converting pre-existing date information having a different format into the format wherein M_1 M_2 is the numerical month designator, D_1 D_2 is the numerical day designator and Y_1 Y_2 is the numerical year designator.

13. The method of claim 11, wherein the step of selecting includes the step of selecting Y_A Y_B such that Y_B is 0 (zero).

14. The method of claim 11, including an additional step, after the step of sorting, of

storing the sorted dates and their associated information back into the database.

15. The method of claim 14, including the additional step, after the step of sorting, of manipulating information in the database having the reformatted date therein.

16. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

17. (New) The method of claim 16, wherein the window includes at least a portion of the decade beginning in the year 2000.

18. (New) The method of claim 17, wherein the step of determining includes the step of:

determining the first value as 20 and the second value as 19.

19. (New) The method of claim 16, including an additional step, after the step of reformatting, of:

sorting the symbolic representations of dates.

20. (New) The method of claim 16, wherein the step of reformatting includes the step of:

reformatting each symbolic representation of a date into the format C₁ C₂ Y₁ Y₂ M₁ M₂ D₁ D₂ separately from the symbolic representations in the database.

21. (New) The method of claim 20, including an additional step, after the step of reformatting, of:

sorting the symbolic representations of dates using a numerical-order sort.

22. (New) The method of claim 16, wherein the step of providing a database includes the step of:

converting pre-existing date information having a different format into the format wherein M₁ M₂ is the numerical month designator, D₁ D₂ is the numerical day designator and Y₁ Y₂ is the numerical year designator.

23. (New) The method of claim 16, wherein the step of selecting includes the step of:

selecting Y_A Y_B such that Y_B is 0 (zero).

24. (New) The method of claim 16, including an additional step, after the step of reformatting, of:

storing the symbolic representation of dates and their associated information back into the database.

25. (New) The method of claim 24, including the additional step, after the step of reformatting, of:

manipulating information in the database having the reformatted date information therein.

26. (New) A method of processing dates in a database, comprising the steps of:

providing a database with dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates; and

sorting the dates in the form $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$.

27. (New) The method of claim 26, wherein the step of providing a database includes the step of:

converting pre-existing date information having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator.

28. (New) The method of claim 26, wherein the step of selecting includes the step of:

selecting $Y_A Y_B$ such that Y_B is 0 (zero).

29. (New) The method of claim 26, including an additional step, after the step of sorting, of:

storing the sorted dates and their associated information back into the database.

30. (New) The method of claim 29, including the additional step, after the step of sorting, of:

manipulating information in the database having the reformatted dates therein.

31. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

32. (New) A method of processing dates in a database, comprising the steps of:

providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot year of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each of the dates in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates; and

sorting the dates in the form $C_1 C_2 Y_1 Y_2$.

33. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of each symbolic representation of a date in the database, without changing any of the symbolic representations of a date in the database during the reformatting step, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates.

34. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a

pivot year represented by one of the symbolic representations of the dates as stored in
the at least one date field of the database, without the addition of any new data field to
the database for purposes of such windowing and converting; and,
running a program collectively on each of the converted symbolic representations of
each of the respective dates to sort or otherwise manipulate the dates represented by
the converted symbolic representations, separately from the date data symbolic
representations contained in the at least one date field of the database.

35. (New) A method of claim 34 further comprising the step of:

opening the database prior to the step of converting.

36. (New) The method of claim 34 further comprising the step of:

collectively sorting the converted symbolic representations prior to the step of
running the program on the converted symbolic representations.

37. (New) The method of claim 35 further comprising the step of:

collectively sorting the converted symbolic representations prior to the step of
running the program on the converted symbolic representations.

38. (New) The method of claim 34 further comprising the step of:

collectively manipulating the converted symbolic representations prior to the step
of running the program on the converted symbolic representations.

39. (New) The method of claim 35 further comprising the step of:

collectively manipulating the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

40. (New) The method of claim 34 further comprising the step of:

collectively sorting the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.

41. (New) The method of claim 35 further comprising the step of:

collectively sorting the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.

42. (New) The method of claim 34 further comprising the step of:

collectively manipulating the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.

43. (New) The method of claim 35 further comprising the step of:

collectively manipulating the converted symbolic representations according to a different data entry field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.

44. (New) The method of claim 34 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

45. (New) The method of claim 35 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.

46. (New) The method of claim 34 wherein the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates in the at least one date field and repeating this step until each of the date data entries in the at least one date field is converted into the format that does not have the ambiguity.

47. (New) The method of claim 35 wherein the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates in the at least one date field and repeating this step until each of the date data entries in the at least one date field is converted into the format that does not have the ambiguity.

48. (New) The method of claim 46 further comprising the steps of:
collectively sorting the converted symbolic representations prior to the step of
running the program on the converted symbolic representations.

49. (New) The method of claim 47 further comprising the steps of:

collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.

50. (New) The method of claim 46 further comprising the step of:
collectively manipulating the converted symbolic representations.

51. (New) The method of claim 49 further comprising the step of:
collectively manipulating the converted symbolic representations.

52. (New) The method of claim 46 further comprising the step of:
collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.

53. (New) The method of claim 47 further comprising the step of:
collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.

54. (New, Previously Amended) The method of claim 52 further comprising the step of:
collectively manipulating the converted symbolic **representations**.

55. (New) The method of claim 53 further comprising the step of:
collectively manipulating the converted symbolic representations.

56. (New) The method of claim 52 wherein the program performs an operation which
manipulates the data in a data field associated with the at least one date field of the
database according to the converted symbolic representation of the date.

57. (New) The method of claim 53 wherein the program performs an operation which
manipulates the data in a data field associated with the at least one date field of the
database according to the converted symbolic representation of the date.

58. (New) The method of claim 54 wherein the program performs an operation which
manipulates the data in a data field associated with the at least one date field of the
database according to the converted symbolic representation of the date.

59. (New) The method of claim 55 wherein the program performs an operation which
manipulates the data in a data field associated with the at least one date field of the
database according to the converted symbolic representation of the date.

60. (New) A method for representing and utilizing dates stored in at least one date field
of a database utilizing symbolic representations of the dates stored in the at least one date
field of the database, which are in a format that creates ambiguity between dates in each
of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;

running a program on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the date data symbolic representations of dates contained in the at least one date field of the database.

61. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic

representations of dates in the at least date field of the database for purposes of such windowing and converting;

running a program collectively on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.

62. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;

storing the converted symbolic representations separate from the at least one date field of the database; and

running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.

63. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;

storing the converted symbolic representations separate from the at least one date field of the database; and

running a program collectively on the stored converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.

64. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;

storing the converted symbolic representations separate from the at least one date field in the database; and

running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.

65. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in

the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;

storing the converted symbolic representations separate from the at least one date field in the database; and

running a program collectively on the stored converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.

66. (New) A method of processing dates in a database, comprising the steps of:

providing a database with dates stored in at least one date field therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new

data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$; and repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

67. (New) A method of processing dates in a database, comprising the steps of:

providing a database with dates stored in at least one date field therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2$, $Y_1 Y_2$; and

repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

68. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of:

providing a database with symbolic representations of dates stored in at least one date field therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the at least one date field of the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of each symbolic representation of a date in at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$, in order to facilitate further processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates, by running a program on the reformatted symbolic representations of each of the dates.

69. (New) A method of processing dates in a database, comprising the steps of:

providing a database with dates stored in at least one date field therein according to a format wherein $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot year of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the at least one date field of the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each symbolic representation of a date in the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2$;

sorting the reformatted symbolic representations of the dates in the form $C_1 C_2 Y_1 Y_2$;
and

running a program on the reformatted symbolic representations of each of the dates.

70. (New) A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or equal to the earliest date represented by the symbolic representation of dates stored in the at least one date field, without the addition of any new data field to the database, and without modifying any of the symbolic representations of dates in the at least one date field, for purposes of such windowing and converting; and,

running a program on the converted symbolic representations of each of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.

71. (New) A method for representing and utilizing dates stored in at least one date field of the database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of

converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or equal to the earliest date represented by a symbolic representation of dates stored in the at least one date field, and without the addition of any new data field to the database for purposes of such windowing and converting;

storing each of the converted symbolic representations of each of the dates separate from the database; and,

running a program on the stored converted symbolic representations of each of the converted symbolic representations of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.

72. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of

selecting a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and,

reformatting the symbolic representation of each symbolic representation of a date in the database with the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$ prior to collectively further processing information contained within the database associated with the respective dates.

73. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of

providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and,

reformatting the symbolic representation of the date with the values $C_1 C_2, Y_1 Y_2$, to facilitate further processing of the dates.

74. (New) A method of processing dates in a database, comprising the steps of

providing a database with symbolic representations of dates stored therein according to a format wherein $Y_1 Y_2$ is the numerical year designator, all of symbolic representations of dates falling within a 10-decade period of time;

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting each date in the form $C_1 C_2 Y_1 Y_2$ to facilitate further processing of the dates; and,

sorting the dates in the form $C_1 C_2 Y_1 Y_2$.

75. (New) A method of processing symbolic representations of dates stored in a database, comprising the steps of

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$; and

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values $C_1 C_2, Y_1 Y_2, M_1 M_2$, and $D_1 D_2$, in order to facilitate further processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates.

76. (New) A method of processing dates in a database, comprising the steps of

providing a database with dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator;

selecting a window with a $Y_A Y_B$ value for a pivot date of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

determining a century designator $C_1 C_2$ for each date in the database, $C_1 C_2$ having a first value if $Y_1 Y_2$ is less than $Y_A Y_B$ and having a second value if $Y_1 Y_2$ is equal to or greater than $Y_A Y_B$;

reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the

reformatted symbolic representation of each date in the database having the values C_1
 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 , in order to facilitate further processing of the
reformatted symbolic representations of each of the symbolic representations of each
of the dates; and
sorting the dates in the form C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 .

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux, E.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
<u>Dickens-Soeder2000,LLC</u>)	
Reexamination Proceeding:)	
90/005,592)	
<u>Filed: December 21, 1999</u>)	
Reexamination Proceeding:)	
90/005,628)	
<u>Filed: February 2, 2000</u>)	
Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

**Applicant's Replacement Appeal Brief
Evidence Appendix B**

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux, E.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
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Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

Applicant's Replacement Appeal Brief
Evidence Appendix B
B(1) Thoreson Declaration



IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

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Technology Center 2100

Merged Proceedings)
Reissue Application No.:)
09/512,592)
United States Patent No.:)
5,806,063)
Issued: September 8, 1998)
Applicant:)
Dickens, Bruce M.)
Reexamination Proceeding:)
90/005,592)
Filed: December 21, 1999)
Reexamination Proceeding:)
90/005,628)
Filed: February 2, 2000)
Reexamination Proceeding:)
90/005,727)
Filed: May 16, 2000)
Response to Office Action

Group Art Unit: 2177

Examiner: Jean Homere

Attorney Docket No.:
1087-400-01

Box Non-Fee Amendments
Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

Responsive to the Office Action dated July 22, 2002, the Applicant hereby
submits the following:

DECLARATION OF EXPERT WITNESS

1. I James S. Toreson, a citizen of the United States, having a place of business at 11210
Briarcliff Lane, Studio City, CA 91604, am the CEO of Onshore, Inc., a management,
technical and software consulting company. Attached is a copy of my curriculum vitae.

2. I have studied United States Patent No. 5,806,063, issued to Dickens on September 8,
1998 on an application filed on October 3, 1996, entitled DATE FORMATTING AND

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SORTING FOR DATES SPANNING THE TURN OF THE CENTURY ("the Dickens patent"). I have also studied US. Patent No. 5,630,118, entitled SYSTEM AND METHOD FOR MODIFYING AND OPERATING A COMPUTER SYSTEM TO PERFORM DATE OPERATIONS ON DATE FIELDS SPANNING CENTURIES, filed on November 21, 1994 and issued on May 13, 1997 to Shaughnessy ("Shaughnessy"). I have also studied a translation of a published Japanese Application No. 05-027947, published on February 5, 1993, naming Masakazu Hazama as the inventor ("Hazama"). I have Studied the article of Ohms, B. G. *Ohms, Computer Processing of Dates Outside the Twentieth Century*, IBM Systems. Journal, Volume 25, Number 2, 1986, pages-244-51, ("Ohms"). In addition I am familiar with the Clipper 5 operating system as it existed on the date of the filing of the Dickens patent and have specifically reviewed the portions to which the Examiner in the above referenced Merged proceeding has made reference. I have also studied portions of the prosecution history of the Dickens patent before it was originally issued as mentioned in this Declaration. I have also studied the claims of the Dickens patent as originally issued and those added in the Reissue application in the above referenced Merged Proceeding.

4. I base my opinions expressed in this Declaration upon my knowledge of the art as a person of at least ordinary skill in the art at the time of the filing of the Dickens patent and on the above referenced materials which I have reviewed.

5. I understand the Dickens patent in its Specification, with or without the Exhibit A referred to in the body of the Specification to have disclosed to one of ordinary skill in the art to which it pertains at the time of its filing the following.

6. The Dickens patent notes, initially, that "[d]ates are stored as symbolic representations in computer data bases in varying formats." (Col. 1, lines 10-11) Examples of such formats are given as a "numerical representation MM/DD/YY, where MM is a two-digit month designator, DD is a two-digit day designator, and YY is a two-digit year designator (the last two digits of the year). ... A date may also be represented in an

alphanumeric for MMM/DD/YY, where MMM is an alphanumeric month designator (e.g., DEC for December" (Col. 1, lines 11-20)

7. Also notes the Dickens patent "[s]ets of dates spanning the turn of the century and associated with past, current, and future activities are now stored in many databases. When stored in the conventional formats discussed above, those dates will not readily be used and numerically sorted in chronological order." (Col. 1, lines 31-35)

8. Further, the Dickens patent notes that "Using the numerical form above, Dec. 15, 2000 is represented as 12/15/00. If a numerical sort is performed on 12/15/93 and 12/15/00, the later date 12/15/00 sorts as the first-occurring date, an incorrect result." (Col. 1, lines 28-30)

9. The Dickens patent also notes "[t]hey [the symbolic representations of dates suffering from the problem of the system being unable to distinguish dates 'spanning the turn of the century'] may be manually converted to a more useable form in the sense that programs may be written to perform conversions, manipulations, and sorting. However, these programs typically require additional data fields for storage, which may be objectionable in some circumstances." (Col. 1, lines 35-40) The Dickens patent also notes "[t]he database includes information in the form of symbolic representations of dates and associated information such as events occurring on the respective dates." (Col. 2, lines 48-50)

10. As stated in the Dickens patent:

The present invention provides an approach to the representation and utilization of dates stored symbolically [as defined above] in databases. Existing symbolic date representations [as defined above] are converted to a more useful form of symbolic date representations *without the addition of new data fields*, and in a manner that is performed automatically by the computer and requires no user input. (Col. 1, lines 49-55, Emphasis added)

11. The Dickens patent goes on to explain:

a method of processing dates stored in a database [symbolically as described above] comprises the steps of providing a database with the dates stored therein according to a [symbolic] format [as discussed above, in which] $Y_1 Y_2$ is the numerical year designator A century designator $C_1 C_2$ is *determined for each date in the database, $C_1 C_2$ Each date in the database is formatted with the values $C_1 C_2 Y_1 Y_2$ * (Col. 1, line 57 – Col. 2, line 3, Emphasis added)

12. The Dickens patent also notes:

The computer database 26 is provided, numeral 30, having symbolic representations of dates stored therein.

...

A ten decade window is selected, numeral 32. That is, it is necessary that all dates in the database will be within some period of 10 decades, or 100 years.

...

The symbolic representations of the dates in the database are reformatted with the values $C_1 C_2 Y_1 Y_2$ In one case that produces particularly advantageous results for many operations, such a chronological date sorting, the date is represented in the form $C_1 C_2 Y_1 Y_2$

Once the symbolic representations of the dates are reformatted according to the procedures set forth above, the date information may be sorted, numeral 38 or otherwise manipulated, numeral 40, together with the entries associated with the dates. Such manipulations may include handling of data associated with the dates, storing the dates back in the dates and information back in the data base, or other processes. (Col. 2, line 60 – Col. 3, line 55)

13. The Dickens patent further notes that:

the present invention thus provides an efficient approach to converting and utilizing symbolic date representations in databases [without requiring additional or modified data fields for storage in the existing database] which allows automatic processing of dates ranging from before to after the year 2000. The

large number of dates represented in some databases may thereby be readily processed and utilized. (Col. 2, lines 22-27)

14. Claims 1 and 11 as originally filed recited:

“reformatting the symbolic representation of the date [in the database] with the values C₁C₂, Y₁Y₂, M₁M₂, D₁D₂,” and “reformatting each date [in the database] in the form C₁C₂, Y₁Y₂, M₁M₂, D₁D₂” respectively.

15. The Examiner rejected these claims on the basis of lack of enablement, since:

[t]he ‘conversion of existing symbolic date representations ... without the addition of new data fields’, as indicated at page 2 lines 7-10, is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. ... The problem set forth in the last four lines of page 1 and promised in the first paragraph of page 2, as well as in the lines quoted above, indicate that the invention solves the Y2K problem without introducing additional digits. The claims, the abstract and the description of the invention in the SUMMARY clearly involve century digits C₁C₂, which increase the number of date digits from 6 to 8, thus using 4 digits to indicate the year. *One of ordinary skill in the art would not know how to resolve this discrepancy.* (Office Action of November 17, 1996, at page 2, Emphasis added)

16. The applicant responded in an Amendment of March 17, 1997. The applicant’s counsel noted:

As stated in the application, many existing databases contain date representations that are defined only by the decade and year designations (i.e., Y₁Y₂). Because these databases do not provide date designations for the century associated with each date, it will be impossible to discern the order of dates in a database after the turn of the century.

To properly and efficiently address this problem, a method for converting dates in databases was needed. This method should accept dates from data

storage, discern the proper century designation for each date, and reformat the dates with the century designation.

The claimed invention provides a method of processing symbolic representations of dates stored in a database. ... Finally, the method of the claimed invention includes the step of reformatting the symbolic representations of the dates into corresponding values of C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 . These values can then be used to manipulate the dates, such as by sorting the dates in chronological order.

In a typical operation of the claimed invention, the method performs date conversions on a database that includes dates from both the twentieth and twenty-first century. ...

... The method of the present invention further includes the step of reformatting the symbolic representations of the dates into values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 *These dates can then be used for several operations such as date sorting.*

Advantageously, the method of the claimed invention can be implemented as an initial step in any database manipulation program. For instance, the method of the claimed invention may be embodied in computer software code that *preprocesses a database prior to beginning the remainder of the data manipulation program.* In this embodiment, the method initially converts the data from the varying formats, *determines the century designation for each date, and reformats the dates such that the dates may be used by the database manipulation program for such operations as sorting and printing¹ the dates.* In this embodiment of the present invention, *the dates are temporarily converted and reformatted for use by the manipulation program.* However the method of the present invention need not store the converted date in data storage. Instead, the *original dates in the data storage remain undisturbed.* This aspect of the present invention thus allows conversion of dates to compensate for century designations

¹ It is not apparent from this discussion of the disclosure of the Dickens patent whether applicant's counsel was relying also on the content of Exhibit A, but only Exhibit A in the disclosure as originally filed refers to performing a printing program after a sorting program. The Examiner did not object to this reference to performing a sorting program or a printing program.

without requiring the addition of data fields to permanently store the century designations. (Emphasis added)

17. In addressing the specific rejection of the original Examiner applicant's counsel also notes:

[T]he Office Action objects to the disclosure for implying that the current invention does not require additional data fields for storage to solve the year 2000 problem [and] rejected all of the claims ... as based on a disclosure that is not enabling. In particular the Office Action states that the conversion of the existing symbolic date representations without the addition of new data fields is critical or essential to the invention but not included in the claims.

As described below, the method of the claimed invention does not require that the converted data that includes the century designations be stored in data storage. Likewise ... the amended set of claims does not require storage of the converted data and therefore imposes no requirement for new data fields. ...

As stated in the background of the invention, conventional date formatting systems typically require additional data fields for storage to accommodate the century designations. These additional data fields are necessary because conventional systems disclose a permanent reformatting of stored data. The claimed invention, on the other hand, does not require that the reformatted data be permanently stored. Instead, the method of [the] claimed invention encompasses embodiments in which the date information is initially reformatted and converted to have century designations, but does not require that the reformatted dates be stored. As stated previously, the method of one embodiment of the claimed invention reads the dates from the database and temporarily reformats the dates with century designations. Data manipulation programs are then performed on these reformatted dates, such as sorting the dates. However, once the data manipulations are complete, the reformatted dates need not be stored in data storage.

18. Disclosed in Shaughnessy is a "system and method for modifying and operating a computer system to perform date operations on date fields having a two digit representation for the year without erroneously mistaking the years 2000 *et seq.* for the years 1900 *et seq.*" (Col. 1, lines 11-14)

19. As a solution to this problem, Shaughnessy proposes:

[i]n accordance with the present invention, the current date operation routines nested in the body of the application program would be replaced with a call to one of a plurality of subroutines stored externally from the existing application program, *as opposed to the date operation routine being reprogrammed to perform the date operation in a new format.* The subroutines will be able to *accommodate the date format currently employed* by the application program, thus making it *unnecessary to convert all of the data fields in files containing data used in the application program over to the new data format.* (Col 4, lines 27-38, emphasis added).

20. As an example Shaughnessy describes a program that would "perform[] a date comparison to determine when loan payments are overdue" (Col.4, lines 39-40)

21. According to the Shaughnessy method, the:

program statements which performed the above functions would be modified to include program statements which did the following:

1. *Call the subroutine which performs the date comparison passing today's date, the date the next payment is due, and a three byte parameter, the first byte of which identifies the format of today's date, the second byte of which identifies the format of the date next payment is due, and the third byte of which is left available for a return code indicative of the result of the comparison;*
2. *If the result received from the subroutine indicates that the date next payment is due is greater than today's date, indicate that the account is okay.* (Col 4, lines 48-62, emphasis added)

22. In order to do this, Shaughnessy suggests that "for the subroutines to be able to accommodate different date formats, certain information, namely the current date, end of 100 year cycle, and two possible century values, must be determined and made available to the subroutines." (Col. 4, line 66 - Col. 5, line 3) In addition, Shaughnessy teaches that "each subroutine that performs a date operation will include a call to another subroutine which can determine this information." (Col. 5, lines 3-5)

23. Further according to Shaughnessy "[t]he above-mentioned information will be used in the subroutine(s) to assign a century value to the two digit representation of the year of the dates to be operated on such that the subroutine can accurately perform its intended function." (Col. 5, lines 21-25) According to the Shaughnessy method this is performed using a form of windowing in which:

[t]he current date is determined ... in a format which utilizes a four digit representation for the year. Initially, the current date is set to the operating system date in the format 00YYDDD ... by way of example ... 0094263 The current date is then compared to the date the system was installed with the [date conversion] modifications (modified system install date) ... which, for the sake of example, is 1994032 If the YYDDD portion of the current date, 94263 is greater than or equal to the corresponding portion of this modified system install date, 94032 ... then the century of the current date is set to the century of the modified system install date"

If the current date appeared less than the modified system install date ... in the 00YYDDD format ... then the current date century would be set in the format CCYYDDD to the century value for the modified system install date plus one
(Col 5, lines 31-57)

24. The Shaughnessy method then determines "the end of the 100 year cycle" according to "several parameters [which] may be specified." These "may include the number of years of future dating required (default is 10), ... and whether the end of the 100 year cycle is to be updated daily" (Col. 6, lines 4-13) "If the cycle is to be updated daily, then the starting date is set to the current date ..., as determined above. ... Next, the end

of the 100 year cycle is determined by adding the number of years future dating required to the starting date" (Col 6, lines 17-22).

25. Further, explains Shaughnessy:

The application program currently operating in a particular computer system may have a comparison of two date fields as part of its operation. If so, the source code which performs the comparison can be replaced with a call to DS2000R1, the name given to an exemplary comparison subroutine useful in practicing the present invention

As illustrated in FIG. 8, the call DS2000R1 ... is inserted into the application program, and includes parameters P1, P2, and P3. P1 and P2 are the date fields which are to be compared. For example, P1 could be "DATE-NEXT-PAYMENT-DUE" and P2 might be "TODAY" as referenced in the above sample of modified source code. P3 is a three byte field in which the first two bytes define the type of date field P1 and P2, respectively. The third byte is a return code which will be set to a value indicative of the result of the comparison. (Col. 8, line 35 - Col. 9, line 53)

26. In summary, the teaching of Shaughnessy is to "[c]all the subroutine which performs the date [operation] passing [two dates] and the three byte parameter [including] a return code indicative of the result of the [operation]." Windowing occurs only in the called subroutine and in a manner other than that of the invention claimed in the Dickens patent as originally issued and/or as added in the Reissue application. Moreover, this "on call" or "on the fly" windowing of at most two date data entries at a time is not the subject matter of such invention.

27. There is, therefore, no teaching or suggestion in Shaughnessy of:

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

The Shaughnessy method selects a 10-decade window utilizing the "date the system was installed."

28. There is also, therefore, no teaching or suggestion in Shaughnessy of:

determining a century designator C_1 C_2 for each symbolic representation of a date in the database, C_1 C_2 having ... ;

The teaching of Shaughnessy is to determine a century designator for at most two date data representations being processed in a called subroutine at any given time.

29. There is also, therefore, no teaching or suggestion in Shaughnessy of:

reformatting the symbolic representation of the date with the values C_1 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 to facilitate further processing of the dates.

The teaching of Shaughnessy is to reformat at most two dates at a time in the called subroutine and the return to the program from the called subroutine of an indicator of the result of the processing of the two reformatted date data entries. Shaughnessy does not teach facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

30. There is accordingly also no teaching or suggestion in Shaughnessy of:

sorting the symbolic representations of dates; (claim 4).

The method of Shaughnessy does not teach sorting all of the "symbolic representations of dates." It teaches only the comparison of one date to a fixed date or two dates to each other in the called subroutine and returning to the program an indication of the result of the comparison.

31. There is also no teaching or suggestion in Shaughnessy of:

reformatting each symbolic representation of a date into the format C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 (claim 5), nor sorting the symbolic representations of dates using a numerical-order sort (claim 6); nor storing the symbolic representation of dates and their associated information back into the database (claim 9), nor

manipulating information in the database having the reformatted date information therein (claim 10).

32. In addition, there is no teaching or suggestion in Shaughnessy of:

converting pre-existing date information[within a database] having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator (claim 7).

33. In addition, there is no teaching or suggestion in Shaughnessy of:

selecting $Y_A Y_B$ such that Y_B is 0 (zero) (claim 8).

34. Japanese Published Patent Application, HEI 5-27947, entitled METHOD OF GUARANTEEING YEAR ORDER, with inventor Masakazu Hazama, published on February 5, 1993 ("Hazama") discloses a system "to guarantee the year order, even for years after 2000 AD, with the current file format, even when the year is managed by the last two digits of the date in digital files." (Hazama, at 2)

35. The system of Hazama, like Shaughnessy, discussed above, modifies a date in a record using a "correspondence utility module (10)." (Hazama, at 2) For that single record "the position in the record where the last two digits AD had been previously stored are specified" to the module 10 from "external parameter 9." Hazama further notes that "the processing section will replace the code of the 10's place in the last two digits of the date with a code that maintains the year order." (Hazama, at 4)

36. A form of windowing is applied. Hazama notes that "the following processing is performed by the module (10)." (Hazama, at 5) This is then followed by "Work area output processing (5): data that have undergone replacement processing (4) are output to the work area (8)." (Hazama, at 6)

37. Referring to Figure 1 in Hazama, it is more clearly demonstrated that Hazama is not more applicable to the patentability of the claimed invention than Shaughnessy, as discussed above. The data from a record is moved from the processor "work area" 8 to the "Year 2000 date correspondence utility module" 10. A modified date, after some form of windowing, for that single record is returned to the work area 8 for processing.

38. Hazama, like Shaughnessy, therefore, does not disclose or suggest the claimed invention.

39. There is also, therefore, no teaching or suggestion in Hazama nor in the combination of Shaughnessy and Hazama of:

determining a century designator C_1 C_2 for each symbolic representation of a date in the database, C_1 C_2 having ... ; ...

The teaching of Hazama, or Shaughnessy in view of Hazama, is to determine a century designator for at most two date data representations being processed in a called subroutine/module at any given time.

40. There is also, therefore, no teaching or suggestion in Hazama, or Shaughnessy in view of Hazama, of:

reformatting the symbolic representation of the date with the values C_1 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 to facilitate further processing of the dates.

The teaching of Shaughnessy, or Shaughnessy in view of Hazama, is to reformat at most two dates at a time in the called subroutine/module and the return to the program from the called subroutine/module of an indicator of the result of the processing of the two reformatted date data entries or a single modified date from a single record. Neither Shaughnessy nor Shaughnessy in view of Hazama teaches facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

41. Accordingly, there is also no teaching or suggestion in the combination of Shaughnessy and Hazama as applied by the Examiner of:

sorting the symbolic representations of dates; (claim 4).

42. There is also accordingly no teaching or suggestion of:

reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$ (claim 5), nor sorting the symbolic representations of dates using a numerical-order sort (claim 6); nor storing the symbolic representation of dates and their associated information back into the database (claim 9), nor manipulating information in the database having the reformatted date information therein (claim 10).

43. In addition, there is accordingly no teaching or suggestion of:

converting pre-existing date information [within a database] having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator (claim 7).

44. In addition, there is accordingly no teaching or suggestion of:

selecting $Y_A Y_B$ such that Y_B is 0 (zero) (claim 8).

45. Ohms teaches a “[m]ethod[] of using existing date formats across century boundaries The use of a format termed the Lilian date format ... is introduced.” (Ohms, at 244, Abstract) Ohms teaches that “[t]he two positions traditionally used in both Julian and Gregorian date formats implicitly represent a year within a century. However, this system is inadequate for representing dates in more than one century.” (Id. at 245) As a solution Ohms proposes a “Lilian date format [to] avoid[] the ambiguity by using seven positions for the number of the days from the beginning of the Gregorian calendar, October 15, 1582.” (Id. at 245) “The value is incremented by one for each subsequent day.” (Id. at 246) Ohms explains that “the Lilian date format is presented here as the basis for making date conversions This format handles processing across century years and other aspects of date conversion not currently adaptable to computer programming.” (Id. at 244-45)

46. In this context, of database conversion to Lilian format from more traditional Gregorian or Julian formats, Ohms describes under the heading "Accommodating end users" the fact that they "usually enter two digits for the year in a date and understand the ambiguity that this represents." (Id. at 248) Ohms goes on to say that:

to avoid adverse user reaction, [by requiring the entry of date data in other than two digits] programs must continue to function with only two digits for year. The inference of the year 1997 from 97 and 2003 from 03 must continue. For the exceptional case where the correct meaning could be 1897 and 1903, entry of all four digits may be required. (Id. at 248)

47. It is in this context also that Ohm notes:

it may be necessary to provide a conversion function that receives a definition of the implied century as a parameter. An excellent way to do this unambiguously is to specify a year as the desired starting point of a 100-year range. For example, if the starting year for the range is specified as 1925, dates with year digits between 25 and 99 would be between 1925 and 1999, and dates with year digits of 00 through 24 would lie between 2000 and 2024. (Id. at 248)

48. Ohms, or the combination of Ohms with either Hazama or Hazama along with Booth, therefore, simply teaches storing dates in a database in Lilian format which "handles processing across century years" and "[a]ccommodating end users" who "enter two digits for the year" by "providing a conversion function" using the known technique of windowing for data entry only.

49. Clipper 5A, described in Booth, in a fashion very similar to Ohms' use of the Lilian date format, as discussed below, operates with date data stored in databases representing dates in the form of a number, often referred to as integer date formatting. Each unique number represents a date or a time and date down to a specific time increment, e.g., a milli-second, starting with a certain date or date/time and counting to the limits of the

number of binary places available, e.g., 32, incrementing the chosen time increments.²

As noted, each integer could represent a day or day/time incremented by the value of the integer from a start date or day/time. That is to say, the total time period that can be represented depends upon the starting date or date/time, the number of unique combinations of, e.g., 32 bits, and the increment counted, e.g., days, seconds, milliseconds, etc.³

50. It is also true of dates stored in integer format, as is also the case with the dates stored in Lilian format, that there is no Y2K ambiguity problem in regard to dates stored in a database in these formats. Booth, therefore, like Ohms, does not even suffer from the problem that the claimed invention is meant to address. Knowing the starting point (the starting date in Lilian, or the starting date or date/time in integer), the granularity (i.e., one day in Lilian and, e.g., one day or one second or one milli-second in integer), and the incremental difference between the starting point and the integer date number stored in either the Lilian or integer format, the stored date is known, including the year to four digits. Therefore, included within what is so stored in the database is the information needed to determine a century designator. No possible Y2K ambiguity problem can exist or does exist when storing dates in a database in these formats. The claimed invention does not relate to databases with dates stored in these formats. The claimed invention involves databases with dates stored in them where there is an ambiguity because only

² This is the same as the Lilian format disclosed in Ohms, however, only the date is stored in Lilian format, according to the teaching of Ohms, and the Lilian date format, strictly speaking, starts with the beginning of the Gregorian calendar. Ohms, however, does disclose a modified Lilian format starting at some other arbitrarily selected starting date. According to the discussion in Booth, at 949-951, Clipper may count integers for year/date separately from hours, minutes and seconds on a given date, but Booth discloses at 951 using a single number, an integer for the year/date, and a decimal component for the elapsed seconds from midnight on the particular year/date. This simply makes Clipper even more identical to Ohms' disclosure of a modified Lilian integer date with the integer representing some day incrementally counted from some starting day, spanning over several centuries. In this format, as noted, each incremental number represents a day or a moment in time, *each such day or moment being, by definition, a part of a fully defined and recoverable four digit year date datum.*

³ Booth, at 939 ("Dates are stored internally in such a way that math operations can be performed on dates to derive other dates. Adding an integer to a date will result in a future date. Subtracting two dates will result in a number of days between the two.") Booth, at 99 ("The date type is used to represent calendar dates. Clipper stores dates internally in such a way that a variety of operations can be performed on them. You can determine the number of days between two dates by subtracting them, and you can determine a future date by adding an integer value to a date value. The result will be a date value, some number of days in the future.")

two digits of date data are present in the stored information, from which to determine the full date, including a century designator. Every date stored in a database in Lillian or integer format, by definition, already has a century designator; can not possibly be ambiguous due to reaching the end of a century⁴; and never needs to have a century designator determined, whether by the method of the claimed invention or otherwise.

51. For this reason alone, Booth, like Ohms, has nothing to do with the invention as claimed in the Dickens patent other than providing another disclosure of a utilization of windowing with a ten decade window for a purpose unrelated to that for which such windowing is used in the inventions as claimed in the claims of the Dickens patent as originally issued and as added in the Reissue applications. In fact, it teaches away from the claimed invention.

52. Booth describes a number of functions that the programming language utilizes to read or write dates into the database, display dates on a screen, find the difference between two dates or a date/time equal to a given date/time plus some incremental time period, to find the day of the week of a given date/time, and like functions. Like Ohms and Shaughnessy, some of these functions employ windowing in some fashion or another. Like Shaughnessy, when they do employ windowing these programming routines "[c]all the subroutine which performs the date [operation] passing [information] indicative of the result of the [operation]." Windowing occurs in the called subroutine in a manner other than that of the claimed invention. Such "on call" or "on the fly" windowing of at most two date data entries at a time is not the subject matter of the claimed invention.

53. By way of example, I have been informed that Booth includes "an easy way to validate a character string used as a date," and/or check for "correctly formatted dates that are not reasonable or even possible," and/or to select a "'safety' date which no [date being entered] can precede [, or] maximum allowable date." (Booth, at 526-28) In addition Booth describes "date manipulation capabilities." Clipper "provides three

⁴ Even at the end of the time span that can be represented, e.g., as noted below Clipper dates run until December 31, 2999, there is no "ambiguity." The system simply cannot express a date beyond the given span (without changing the parameters, e.g., the length of the integer number or the granularity).

settings which control the display of dates,” [e.g.,] “whether or not the year portion of a date is display [sic] with four digits (including the century) or two digits (not including the century),” [and] “different date display formats.” (*Id.* at 939-40)

54. Booth also describes a “SET EPOCH command” which, in the same way as Ohms, “informs the system how to handle date data entry that use only two digits for the year.” According to this function, “[w]hen a two-digit year is entered into a date, its year digits are compared with the year digits of the epoch setting to determine the century to place the date into. If the two digits are prior to the setting of SET EPOCH, the year is assumed to be in the next century. If the digits are greater than or equal to the SET EPOCH setting, the year is assumed to be in the current century.” (*Id.*, at 941)

55. This is virtually identical to the utilization of windowing to enter dates into a database (where they are then stored in Lilian format) that is disclosed in the Ohms article, as discussed by the Applicant as noted below. In the SET EPOCH function disclosed in Booth, the pivot year defaults to 1900, which “forces any date entered to be considered a date in the twentieth century.” This also means that in this mode, no Y2K date ambiguity problem is recognized or accommodated, even in date data entry.

56. Booth also discloses a function DTOC(), i.e., “[t]he date to character function [which] takes a date variable ... and returns a string representation of the date. The string is recreated in the format specified by the SET DATE or the SET DATEFORMAT command. If SET DATE has not been specified, the default date format is mm/dd/yy.” (*Id.*, at 944) Also disclosed is a function DTOS() “date to string function” which “takes a date variable ... and returns a string in the format YYYYMMDD” The formats available for SET DATE are set forth on page 940 of Booth.

57. There is, therefore, no teaching or suggestion in Booth, or in the combination of Shaughnessy, Hazama and Booth, of:

providing a database with symbolic representations of dates stored therein according to a format wherein M₁M₂ is the numerical month designator, D₁D₂ is

the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time.”

Booth’s “method of processing symbolic representations of dates stored in a database” teaches utilizing a database with the symbolic representations of dates stored therein in the form of unique integers or numbers, each representative of a unique day or other more granular moment in time, or a combination of a unique day and a number representing a unique time on that day. This is not storage in a $M_1 M_2, D_1 D_2, Y_1 Y_2$ format. In addition, there is no teaching or suggestion that those dates all fall within a 10-decade period of time. So far as Booth teaches the dates stored in the database can be any span of dates capable of being represented over the span of time capable of being represented by the particular integer date system being used.⁵

58. There is also no teaching or suggestion in Booth, or in the combination of Shaughnessy, Hazama and Booth, of:

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database;

Booth selects, e.g., “nyear” in order to “handle dates that use only two digits for the year [w]hen a two-digit year is entered into a date [by comparing] its year digits . . . with the year digits of the epoch setting to determine the century . . . ,” (Id., at 941). There is no teaching or suggestion of any consideration of “the earliest $Y_1 Y_2$ year designator in the database.”

59. There is also, therefore, no teaching or suggestion in Booth or the combination of Booth with the references as applied by the Examiner, of:

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having . . . ;

There is no need to determine a century designator for each symbolic representation of a date in Booth’s database, since each is already stored with the century designator included in the date datum so stored in integer format. In addition, the teaching of Booth

⁵ Booth, at 99 (“Clipper supports all dates from January 1, 100AD through December 31, 2999.”)

is to determine a century designator on an individual date datum basis for date data entry, date display, incrementally determining a date based upon a given initial date datum, etc. This calling of certain functions disclosed by Booth to, for example, display a date, or compare two dates, or increment a date from a starting date, are virtually identical to the pertinent disclosure in Shaughnessy, discussed by the patent owner as noted above. As I have been informed has been noted by the patent owner before, Shaughnessy was properly considered by the original Examiner not to have been relevant to the patentability of the claimed invention.

60. There is accordingly also, therefore, no teaching or suggestion of:

reformatting the symbolic representation of the date with the values C_1 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 to facilitate further processing of the dates.

Booth, like Ohms, does not need to do the recited reformatting, since the dates stored in the database in their original format already contain all the information needed to determine the four digit designation of the date, including the century of the particular date datum. The process of the claimed invention is not needed for dates stored with the century designator already known from what is stored and the Y2K ambiguity not present. Furthermore, the teaching of Booth, like Shaughnessy, is to reformat one or two dates at a time in a called Clipper date functionality and the return to the program from the called subroutine with information resulting from the performance of the programming functionality, e.g., an input to a display, a result of a comparison, a newly calculated date, etc. Booth does not teach facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

61. Accordingly, there is also no teaching or suggestion of "sorting the symbolic representations of dates," as recited in claim 4. These are the reformatted symbolic representations. Whatever sorting Booth teaches does not need to first reformat the date data, since the integer format can be and is sorted in its initial format. The method of the claimed invention, including the reformatting steps is simply not relevant to a database that stores date data as Clipper does, in integer format, as described in Booth.

62. There is accordingly also no teaching or suggestion of "reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$," as recited in claim 5. Neither is there a disclosure of "sorting the symbolic representations of dates using a numerical-order sort," as recited in claim 6. There is no disclosure of "storing the symbolic representation of dates and their associated information back into the database," as recited in claim 9 nor "manipulating information in the database having the reformatted date information therein," as recited in claim 10.

63. In addition, accordingly, there is no teaching or suggestion of "converting pre-existing date information [within a database] having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator," as recited in claim 7. This process step is recited as part of the "step of providing the database" upon which the subsequent process steps recited in the claimed invention, are carried out. The fact that Booth, or other art, teaches converting date data from one format into the recited format, does not teach it as part of the process of the claimed invention. Similarly, there is no teaching or suggestion in Booth of "selecting $Y_A Y_B$ such that Y_B is 0 (zero)," as recited in claim 8, even though SET EPOCH can and does use pivot years ending in 0. SET EPOCH, as noted above, is not a process according to the claimed invention.

64. There is no teaching or suggestion in Ohms or Booth of:

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time; ...

Unlike this recitation of claim 1, Ohms and Booth teach providing a database with the dates in a Lilian or integer format.

65. There is accordingly also, therefore, no teaching or suggestion of:

providing a database ... all of the symbolic representations of dates falling within a 10-decade period of time; ...

Ohms and Booth teach having data in the database in Lilian or integer format, i.e., in the former case within a ninety-nine million day window (seven chronological day date numbers starting at a given date).

66. There is accordingly also, therefore, no teaching or suggestion of:

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database; ...

Ohms and Booth teach or suggest selecting a $Y_A Y_B$ for the first decade based upon dates that are being input into the database.

67. There is accordingly also, therefore, no teaching or suggestion of:

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having ... ; ...

Ohms teaches entering date data into the database to be converted into Lilian format for storage and manipulation within the database. He does not teach or suggest determining a century designator for data in the database. Lilian format needs none.

68. There is accordingly also, therefore, no teaching or suggestion of:

reformatting the symbolic representation of the date with the values $C_1 C_2, Y_1 Y_2, M_1 M_2$, and $D_1 D_2$ to facilitate further processing of the dates.

Ohms teaches reformatting into Lilian format for purposes of facilitating the later processing of the date data in the database utilizing the Lilian format.

69. Ohms would not have made the claimed invention as recited in claim 1 obvious to a person of ordinary skill in the art at the time the invention was made, under 35 U.S.C.

§103. As explained above, not only does Ohms not teach or suggest the claimed invention recited in claim 1, it clearly teaches away from virtually every step of the method of the claimed invention as recited in claim 1. The same can be said of Booth.

70. The combination of Ohms with Hazama, or Ohms with Hazama and Booth would not have made the claimed invention as recited in claim 1 obvious to a person of ordinary skill in the art at the time the invention was made, under 35 U.S.C. §103. As explained above, not only does Ohms not teach or suggest the claimed invention recited in claim 1, it clearly teaches away from virtually every step of the method of the claimed invention as recited in claim 1. The combination of these references would not result in there being present all of the elements of the claim as recited in claim 1 of the Dickens patent as issued. The same can be said of Booth.

71. For like reasons accordingly there is also no teaching or suggestion of:

sorting the symbolic representations of dates (claim 4); or reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$ (claim 5); or sorting the symbolic representations of dates using a numerical-order sort (claim 6); or storing the symbolic representation of dates and their associated information back into the database (claim 9).

72. There is also accordingly no teaching or suggestion of:

The method of claim 9, including the additional step, after the step of reformatting, of manipulating information in the database having the reformatted date information therein (claim 10).

73. In addition, accordingly, there is no teaching or suggestion of:

converting pre-existing date information having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator (claim 7) or selecting $Y_A Y_B$ such that Y_B is 0 (zero) (claim 8).

74. The above is also applicable to claims 11- 15 in the Dickens patent as originally issued.

75. The above discussion as to claims 1-3, 5, 7, 9 and 11-12 is also applicable to claims 16-18, 20, 22, 24-25 added in the Reissue application.

76. The above discussion of claims 2, 4 and 6, is also applicable to claims 19, 21, 23 added in the Reissue application.

77. Neither Shaughnessy, nor Ohm, nor Booth nor Hazawa, nor any combination of these references discloses or suggests the claimed invention as recited in Claim 16. At a minimum, as noted above, these references separately or collectively fail to teach or suggest "reformatting the symbolic representation of each symbolic representation of a date in the database" Further, at a minimum, they do not teach or suggest doing the reformatting "without the addition of any new data field to the database" In addition there is no teaching or suggestion of "the reformatted representation of each date in the database having the values C_1 , C_2 , ..., in order to facilitate collectively further processing the reformatted symbolic representations ... of each of the dates."

78. Ohms and Booth, utilizing Lillian and integer date formats, respectively, do not reformat dates in the database at all, and do not even have the Y2K ambiguity problem addressed by the present invention. Shaughnessy and Hazama encounter a date datum and call a subroutine or module to process the single date, or at most two dates, for resolution of the Y2K ambiguity problem. This is not the claimed invention, as distinguished from these references by at least the recitations noted above in regard to the originally issued claims and, e.g., in paragraph 67.

79. As to claim 19, neither Shaughnessy, nor Ohm, nor Booth nor Hazawa, nor any combination of these references discloses or suggests the claimed invention as recited in Claim 19. For the reasons noted above, the "symbolic representations of [each of the] dates [in the database]" is not taught to be produced, and/or is not taught to be produced according to the method of the claimed invention, as recited in claim 16. Therefore, whatever sorting is done in these references is not the claimed sorting.

80. The same is true with respect to claim 20, as was the case with claim 19, as noted above. In addition the references do not teach or suggest "reformatting each symbolic representation of a date ... separately from the symbolic representations in the database."

81. With respect to claim 22, to the extent that the references or any of them discloses or suggests "converting pre-existing date information ..." as recited in claim 22, they do not teach or suggest doing so as a part of the method recited in the allowable claim 16.

82. With respect to claim 23, the same can be said as with respect to claim 22 above.

83. With respect to claim 24, neither Ohms, Shaughnessy, Booth nor Hazama, nor any combination of these references teach or suggest "storing the symbolic representation of dates and their associated information back into the database." Ohms and Booth do not store symbolic representations of dates, as recited, but instead store dates in, respectively, Lilian or integer date formats. Shaughnessy does not send any reformatted date data for storage anywhere outside at most the subroutine/module called to handle one or two date representations at any given execution of the subroutine/module. The same is true for Hazama as understood from the translation. Even so at best, Hazama, discloses returning a modified data datum, which is not in accordance with the process of the Dickens invention, wherein the date data field in the legacy database is not to be modified. The claim indicates that the symbolic representations of the date along with its "associated information," i.e., the other datum fields can be returned, e.g., after sorting or other manipulating, e.g., so that the data in the database will be, e.g., in the newly sorted order.

84. With respect to claim 25, neither Ohms, Shaughnessy, Booth nor Hazama, nor any combination of these references, teach or suggest "manipulating information in the database having the reformatted date information therein." Ohms and Booth do not manipulate reformatted symbolic representations of dates, as recited, but instead manipulate dates in, respectively, Lilian or integer date formats. Shaughnessy and Hazama do not manipulate any reformatted date information in the database.

85. The above discussion regarding the corresponding claims also applies to claims 26-30.

86. The above discussion also applies to claims 31-33.

87. With respect to claims 31-33, neither Shaughnessy, nor Ohm, nor Booth nor Hazama, nor any combination of these references, discloses or suggests the claimed invention as recited in Claim 31. At a minimum, these references separately or collectively fail to teach or suggest "reformatting the symbolic representation of each symbolic representation of a date in the database" Further, they do not teach or suggest doing the reformatting "without the addition of any new data field to the database" In addition there is no teaching or suggestion of "the reformatted representation of each date in the database having the values C_1 , C_2 , ... , in order to facilitate collectively further processing the reformatted symbolic representations ... of each of the dates."

88. Ohms and Booth, utilizing Lillian and integer date formats, respectively, do not reformat dates in the database at all, and do not even have the Y2K ambiguity problem addressed by the claimed invention. Similarly the discussion of Shaughnessy and Ohms in this regard noted above is applicable here.

89. The above discussion of the references is also applicable to claims 34-59.

90. With respect to claim 34, neither Shaughnessy, nor Ohms, nor Booth nor Hazawa, nor any combination of these references, discloses or suggests the claimed invention as recited in Claim 34. At a minimum, these references separately or collectively fail to teach or suggest "converting each of the symbolic representations of dates stored in ... the database" Further, they do not teach or suggest doing the reformatting "by windowing ... each of the respective dates as stored ... without the addition of any new data field to the database" In addition there is no teaching or suggestion of "running a program collectively on each of the converted symbolic representations of each of the respective dates"

91. With respect to claim 35, in addition to the discussion above with respect to claim 34, these references do not separately or collectively teach or suggest "opening the database prior to the step of converting" in the process as recited in claim 34.

92. Similarly with respect to claims 36 and 37, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively sorting the converted symbolic representations prior to the step of running the program" in the processes as recited in claims 34 and 35.

93. Similarly with respect to claims 38 and 39, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations prior to the step of running the program" in the processes as recited in claims 34 and 35.

94. Similarly with respect to claims 40 and 41, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively sorting the converted symbolic representations according to a different data field contained in the database" Neither do they teach or suggest doing this "prior to the step of running the program on the converted symbolic representations" as recited in claims 40 and 41.

95. Similarly with respect to claims 42 and 43, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations according to a different data field contained in the database" Neither do they teach or suggest doing this "prior to the step of running the program on the converted symbolic representations" as recited in claims 42 and 43.

96. Similarly with respect to claims 44 and 45, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or

suggest the process as claimed in claims 34 and 35 wherein in addition “the program performs an operation which manipulates the data in a data field associated with the at least one date data field of the database according to the converted symbolic representation of the date” as recited in claims 44 and 45.

97. Similarly with respect to claims 46 and 47, in addition to the discussion above made with respect to claims 34 and 35, these references do not separately or collectively teach or suggest the process as claimed in claims 34 and 35 wherein in addition “the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates ... and repeating this step until each of the date data entries in the at least one date data field is converted” as recited in claims 46 and 47.

98. Similarly with respect to claims 48 and 49, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest “collectively sorting the converted symbolic representations prior to the step of running the program” as recited in claims 48 and 49.

99. Similarly with respect to claims 50 and 51, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest “collectively manipulating the converted symbolic representations” as recited in claims 50 and 51.

100. Similarly with respect to claims 52 and 53, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest “collectively manipulating the converted symbolic representations according to a different data field ... prior to the step of running the program” as recited in claims 52 and 53.

101. Similarly with respect to claims 54 (as amended) and 55, in addition to the discussion above made with respect to claims 52 and 53, these references do not

separately or collectively teach or suggest "collectively manipulating the converted symbolic representations" as recited in claims 54 and 55.

102. Similarly with respect to claims 56 - 59, in addition to the discussion above with respect to claims 52 - 55, these references do not separately or collectively teach or suggest a process "wherein the program performs an operation which manipulates the data in the date data field ... according to the converted symbolic representation of the date" as recited in claims 56 -59.

103. The above discussion of the references applies as well to claims 60-65.

104. With respect to claim 60, neither Ohms, Shaughnessy, Booth nor Hazama, separately or collectively teaches or suggests "converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity," as recited in claim 60. Or at a minimum they do not also teach or suggest doing this "without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting," as recited in claim 60. Neither do they separately or collectively teach or suggest "running a program on each of the converted symbolic representations of each of the respective dates ...according to the dates represented by the converted symbolic representations," as recited in claim 60. In addition, also at a minimum, they do not separately or collectively teach or suggest doing so "separately from the date data symbolic representations of dates contained in the at least one date field," as recited in claim 60.

105. The discussion in paragraph 94 applies also to claim 61.

106. With respect to claim 62, the same discussion above regarding claim 60 also applies to claim 62 and in addition, these references do not teach or suggest the step of "converting" including "without the addition of any new data field to the database for purposes of such windowing and converting," as recited in claim 62. Neither do they

separately or collectively teach or suggest “storing the converted symbolic representations separate from the at least one date field of the database,” as recited in claim 62. Neither do they teach or suggest “running a program on the stored converted symbolic representations,” as claimed in claim 62.

107. With respect to claim 63, the same discussion above as to claim 62 also applies to claim 63.

108. With respect to claims 64 and 65, the same discussion above as to claims 62 and 63 applies to claims 64 and 65 with the exception that the claimed step of “converting” includes “without modifying any of the symbolic representations of date in the at least one date field of the database for purposes of such windowing and converting,” which is not taught or suggested by these references separately or collectively in a process as defined by the recitations of claims 64 and 65, nor with the additional step of “storing the converted symbolic representations separate from the at least one date field in the database,” as recited in claims 64 and 65.

109. The same discussion of the references above applies as well to claims 66-69.

110. With respect to claims 66 and 67, the references do not teach or suggest, separately or collectively “reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new date field to the database ...; and repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic representations,” as recited in claims 66 and 67.

111. With respect to claim 68, these references do not teach or suggest, separately or collectively, “reformatting the symbolic representation of each symbolic representation of a date in at least one date field in the database, without the addition of any new date field to the database ... in order to facilitate processing of the reformatted symbolic

representations ... by running a program on the reformatted symbolic representations of each of the dates” as recited in claim 68.

112. With respect to claim 69, the same discussion above with respect to claim 68 applies to claim 69 and in addition, the claim recites “sorting the reformatted symbolic representations (in the recited format) ... and running a program on the reformatted symbolic representations of each of the dates,” which is not taught or suggested by these references, separately or collectively.

113. The above discussion of the references also applies to claims 70-76.

114. The same discussion of claims 61-65 apply as well to the claims 70-76 except that the claims 70 and 71 recite both “without the addition of any new data field” and “without modifying any of the symbolic representations of dates in the at least one date field”

115. The description contained in the Specification of the Dickens patent as filed, is clear, concise and descriptive of the claimed invention and enabling of the claimed invention, especially of the claims as filed, but also including those claims added in the Reissue Application. This includes the Specification as filed with or without the Exhibit A filed with the application but not printed with the patent as issued, but it is even more clearly present with the disclosure of Exhibit A.

116. It is plain from the discussion in the Dickens Patent Specification referenced in paragraphs 6-8 above that dates stored in a database in pure numerical form, e.g., Lilian, as in Olms, or in other form, e.g., binary form, e.g., integer form as in Booth, with a unique number representing each day (or each minute or second or part thereof, depending on the granularity) in a chronological sequence of days (minutes, seconds, etc.) from a particular starting date, as in Olms or Booth, is not even analogous art to the present invention. In those databases, the number stored includes by definition the year in four digits, and is not susceptible to the problems solved by the invention claimed in

the Dickens patent as issued and/or as added in the Reissue application, among others, being that a sort on dates stored as discussed above in the cited portions of the Dickens patent will be subject to, e.g., the system being "unable to distinguish between the year 2000 and the year 1900, for example, the latter is also represented by the two digit code 00." (See Shaughnessy, Col. 1, lines 23-25).

117. Therefore, both Ohms and Booth add nothing to the disclosures of Shaughnessy and/or Hazawa related to teaching or suggesting the invention as claimed in the Dickens patent as issued and/or as added in the Reissue application. Ohms and Booth teach a utilization of windowing, but not in the context of any suggested solution to the problem that is solved by the invention of the Dickens patent. In fact they teach away, since they teach the storage of the dates in a form that is not the "symbolic representation[]" dealt with in the Dickens patent and is not subject to the system being "unable to distinguish" dates stored in that fashion. Shaughnessy and Hazawa already teach a utilization of windowing and the added teachings of either or both of Ohms and Booth, beyond using windowing for something not related to what windowing is used for in the Dickens patent, are irrelevant to the invention of the Dickens patent.

118. One of ordinary skill in the art would readily understand the Specification of the Dickens patent, e.g., as mentioned in paragraph 9 above, to reflect the issue that caused the Y2K problem in the first place. Databases (referred to herein generally as "legacy databases") created initially during a period of time when memory was relatively very much more expensive than it is today or even has been for the last decade or so, were designed to have as small a data field for each needed item of information stored in the database as possible. For the year portions of dates stored, e.g., in a single date data field (e.g., MMDDYY) or a set of data fields (e.g., a separate MM, DD, and YY data field), as is the case in the databases relevant to the Dickens patent, this meant two character year date information with no century designation.

119. The just referenced concern is at least part of the reason, as would have been well understood by one skilled in the art, that other representations, e.g., that are not symbolic,

as that term is defined in the Dickens patent, were created, e.g., Lilian as in Ohms and integer as in Booth. Ohms and Booth represent ways to initially store a complete date having day month and year to four digits, and maybe even with less bytes than would be required for a symbolic representation in the form, e.g., DD/MM/Y, not to mention DD/MM/YYYY.

120. Therefore, existing legacy databases, which have Lilian or integer date data formats are not subject to a Y2K ambiguity problem. Legacy databases in which the dates are stored in a date data format including a data field or set of data fields, including only the storage of two year date designation characters, do have, as the Dickens, Shaughnessy and Hazama patents recognize, the Y2K ambiguity problem.

121. While an existing legacy data base having the Y2K ambiguity problem may be modified to place the date data in the database in another format, e.g., containing YYYY instead of just YY, or into Lilian or integer format, or by adding to the legacy database another field, e.g., a CC, century designator field, as noted by both the Dickens patent and Shaughnessy, this can be complex, costly and maybe not effective.

122. Replacing the one date data field or set of date data fields in a legacy database of the type described by the Dickens patent to suffer the Y2K date ambiguity problem, as would have been understood by those skilled in the art at the time of the filing of the application leading to the Dickens patent, may be simply unworkable or at best costly, time consuming and subject to numerous errors that may be even more costly and expensive to be fixed, if they even can be, after such a conversion. In short the best solution available in the prior art, as suggested by both Shaughnessy and the Dickens patent, may have been, as many people did, abandon the legacy database in favor of a totally new one in which the years date data is stored unambiguously, e.g., as YYYY. If such abandonment was not feasible, then there existed also the possibility of creating an entirely new database and transferring all of the data entries in all of the fields into the newly created database, if possible without massive clerical error. Neither solution was really economically viable as suggested in Both Shaughnessy and the Dickens patent.

Shaughnessy proposed a solution to this problem but his is significantly different from that of the claimed invention in the Dickens patent, and also not nearly as effective.

123. One of ordinary skill in the art at the time of the filing of the application that led to the Dickens patent would have understood the many problems in modifying a legacy database containing only room for date data in the format YY to a modified format, e.g., containing a YYYY date data format, some of which, by way of example only, might include:

(1) a database designed to be organized and contained in memory in a certain way, e.g., to conserve space or improve accessibility or both may physically (electronically) not be susceptible to expanding the YY date characterization into, e.g., YYYY; or

(2) pointers and other links, e.g., between data fields included in a string of date data information, i.e., DD, MM, YY, or other such links, e.g., between such a string entered in the database and another string that the database used, e.g., in comparing, or, e.g., for date sorting purposes, or, e.g., the initial data entry system of the database, or many other reasons that would have been understood by those skilled in the art at the time of the filing of the application leading to the Dickens patent, may be set up to look for only a specified memory location or locations which may not be sufficient to contain the new year date data in, e.g., the expanded format.

124. This is the problem addressed in the Dickens patent and its disclosure, e.g., as referenced above, e.g., in paragraphs 10 - 13, as would be done by one of ordinary skill in the art, must be construed with that fact in mind.

125. One of ordinary skill in the art would necessarily have understood from the disclosure of the Dickens patent, e.g., as referenced in paragraphs 10 - 11, with or without Exhibit A, that the steps of determining a century designator and reformatting each of the dates in the database is to be done without requiring additional or modified date data fields in the existing legacy database. The disclosure specifically says that avoiding having to do such a modification of the existing legacy database is the very

reason for the claimed invention. This is also true in light of the claimed purpose being to "facilitat[e] further processing of the dates," and because of the disclosure in the Dickens patent discussed further below that "[o]nce the symbolic representations of the dates are reformatted ... the date information may be sorted"

126. It is plain from the disclosure of the Dickens patent, with or without Exhibit A, e.g., as referenced above in paragraphs 12 and 13, and would have been so understood by one of ordinary skill in the art, based upon the context of the disclosure as a whole of the Dickens patent, with or without Exhibit A, at the time of filing, that what is disclosed is the conversion, wholesale, of the dates in the database and running some program on the large number of dates so converted and that this is done without changing the underlying data fields in the legacy database from which the date data information was originally obtained and to which it may be returned. Similarly, it is plain, and would have been so understood by one of ordinary skill in the art, that to perform the method of the Dickens patent, the converted dates must be stored somewhere outside of the existing database date data fields, otherwise sorting and other manipulations by applications programs could not be done on all of the dates taken from the database and reformatted according to the claimed invention.

127. Shaughnessy discloses the receiving from the processor into the subroutine of the one or two dates taken from the legacy database date data field(s) that Shaughnessy's subroutine operate upon, without specifically disclosing where outside the original date data field in the legacy data base this storage would occur. Similarly, those skilled in the art would have understood that all of the converted dates from the legacy database, according to the invention as claimed in the Dickens patent, ["each symbolic representation of a date in the database," and "reformatting the symbolic representation of the date [for each such date]" would require some memory and it would not be the date data fields of the legacy database. Only in this manner, as would also have been understood by those of ordinary skill in the art from the disclosure in the Dickens patent, with or without Exhibit A, could a program be run on the dates so reformatted to accomplish the subsequent claimed steps of, e.g., "sorting" and "manipulating."

128. It is clear from the prosecution history of the Dickens patent before it was originally issued, specifically as referenced above in paragraphs 14 – 17, that when applicant's counsel said that the claimed method of the patent application "should accept dates from data storage ..., " applicant's counsel was referring to data storage where the database, i.e., a legacy database, was stored with only the availability of Y₁Y₂, to discern the proper century. In addition it is clear that when applicant's counsel again uses this term in stating "[h]owever the method of the present invention need not store the converted date in data storage," that this is the same data storage where the original legacy database is stored, with its limitations, e.g., as to ability to store date data in other than a two character year date data format. Applicant's counsel immediately goes on to state "[i]nstead, the original dates in the data storage remain undisturbed." Thus the original legacy database remains as it was with no changes. Applicant's counsel then immediately thereafter goes on to say that "[t]his aspect of the present invention thus allows conversion of dates to compensate for century designations without requiring the addition of data fields to permanently store the century designations." This also makes it clear that when applicant's counsel asserted that "the claimed invention does not require that the converted data that includes the century designations be stored in data storage," he was referring to storing the converted data back in the original date data fields of the legacy database, within the "data storage." It is evident also that the statement by applicant's counsel that "the amended set of claims does not require storage of the converted data and therefore imposes no requirement for new data fields," is referring to storage of the converted data in new data fields in the legacy database, within the "data storage." Further it is clear that the comment of applicant's counsel, that "conventional date formatting systems typically require additional data fields for storage to accommodate the century designations," means that the problem being addressed is being able to sort, manipulate and otherwise run programs on these date representations without modifying the existing fields in the database or changing that data in those fields permanently.

129. As the specification of the Dickens patent points out and as those in the art would have known at the time, the legacy database is not readily susceptible of changing the format of those date data fields for permanently modifying the date data format contained in the legacy database. Applicant's counsel's comment that "[t]hese additional data fields are necessary because conventional systems disclose a permanent reformatting of stored data," clearly refers the undesirable prior art solution of the Y2K problem by reformatting the legacy database itself and then, e.g., reformatting all of the date data and also the fact that this solution does require that new data fields be added to the legacy database.

130. Additionally, in the context of this argument, the applicant's counsel's assertion that "[t]he claimed invention, on the other hand, does not require that the reformatted data be permanently stored. Instead, the method of [the] claimed invention encompasses embodiments in which the date information is initially reformatted and converted to have century designations, but does not require that the reformatted dates be stored," is plainly talking about the lack of need for permanent storage within the date data fields of the legacy database. One skilled in the art would plainly understand this from the disclosure, with or without Exhibit A.

131. Even Shaughnessy, as noted above, in his method has to store one or two dates processed each time by the called subroutine in some form of data storage, even if it is a register or cache memory in the processor. Clearly the set of date data, which has been converted and reformatted, according to the claimed invention, must be stored somewhere for the additional process steps of, e.g., sorting or manipulating (or as shown in Exhibit A, sorting by model number and then sorting by date) in order for these later process steps to be performed. This would have been understood by one of ordinary skill in the art from the disclosure, especially with Exhibit A. What is not changed is the date data stored in the data storage that contains the original legacy database. Not only would this have been evident to one of ordinary skill in the art at the time of the filing of the Dickens patent, this is what applicant's counsel argued to the Examiner:

As stated previously, the method of one embodiment of the claimed invention reads the dates from the database and temporarily reformats the dates with century designations. Data manipulation programs are then performed on these reformatted dates, such as sorting the dates. However, once the data manipulations are complete, the reformatted dates need not be stored in data storage. (Emphasis added)

132. This is the same "data storage" referenced by applicant's counsel to be where the legacy database was stored. Applicant's counsel continued:

[i]nstead the dates in the data storage can remain the same as they were prior to the temporary reformatting of the data by the method of the claimed invention. Thus in these embodiments, the method of the claimed invention does not require additional data fields for storage because the reformatted dates with the century designations are only used 'on the fly' for data manipulation and are not stored in data storage.

133. It should be plain from the above referenced prosecution history that the original Examiner understood the claimed invention to be what applicant now asserts it is according to the meaning of the claims as allowed in the Dickens patent. This meaning applies as well to the claims added herein in the Reissue application. That is, the method allows the extraction from an existing legacy database with date data stored in a format, e.g., using only Y_1Y_2 , that is Y2K ambiguous, temporarily converting and reformatting each of the extracted dates to a format, e.g., $C_1C_2Y_1Y_2$, that is not Y2K ambiguous, performing data manipulation programs on these reformatted dates, that are not stored in the original legacy database fields, but necessarily must be stored somewhere separate from or outside of the original legacy database fields, and utilizing the results of the data manipulation program, without having to have modified the original legacy database and its original fields, formats, links, etc.

134. Otherwise, the original Examiner would not have removed the rejection based on the change in the claims from "reformatting the symbolic representation of the date in the database" or "reformatting each date in the database," to, respectively, to "reformatting

the symbolic representation of the date ... to facilitate further processing of the dates” and to facilitate further “reformatting each date ... to facilitate further processing of the dates,” as was done in the Supplemental Response of April 2, 1998, which resulted in allowance. The original Examiner stated:

The Prior Art of Record ... does not anticipate nor suggest the set of limitations of the claims, comprising the threshold year digits as used to determine a pair of century digits to be used for computation, but without enlarging the number of date digits in of the database.

Further stated the Original Examiner in an Interview summary of April 2, 1998: It was agreed that the summary of the invention, and the arguments of the response, were not entirely in conformity with the claims, which would be potentially allowable if the use of additional century digits did not include their storage in the database.

135. Claim 10, as noted above was amended to clarify the same conflict with the disclosure as the original Examiner recognized in the claims as originally filed, i.e., that the reformatted dates are not stored back into the database.

136. Given the interpretation of the claims as filed originally and issued as amended in the original application leading to the Dickens patent, and the claims added in the current Reissue application that clarify further the meaning of those original claims, clearly the same reasons as asserted by the original Examiner for allowance of the claims in the original application apply to claims 1-76 in the present application.

137. It is not correct, as the Examiner asserts, that Shaughnessy “teaches modifying those dates that have a two digit identifier less than some predetermined pivot date, changing the format of the date, and sorting the results.” To the extent that “those dates” is intended by the Examiner to mean the recited “all of the symbolic representations of dates” and/or “each symbolic representation of dates,” Shaughnessy’s teaching, at best, is “modifying those dates that have a two digit identifier less than some predetermined pivot date, changing the format of the date” only with respect to one, or at most two,

dates sent to a called subroutine when an application encounters a two digit date data and an instruction, e.g., to determine if that date is in the past or future, i.e. to compare it to some other single fixed date, or, e.g., to compare two dates encountered by the application program.

138. Shaughnessy does not perform the step of "sorting the results," if the Examiner means the claimed results of "reformatting" "each" or "all" reformatted symbolic representations in the data base. Shaughnessy sorts between a single fixed date and a forwarded date or between two dates forwarded from the application and returns to the application a "parameter" indicating the result of, e.g., the sorting of the two dates.

138. Hazama, similar to Shaughnessy, has a "computer system ... processing section [which] replaces the code for the tens place in the last two digits of the year AD with a code that maintains the year order." To do this, the two digit date code is sent by the program processor, referred to as "work area" 8 or "clear area" 8, to a module 10 and the modified date is returned to the processor "work area" or "clear area" 8. Therefore, even with the disclosure in Hazama "of the need for the pivot date to be less than any date in the database" the claimed invention is no more disclosed than in Shaughnessy.

139. It is not correct that Shaughnessy teaches or suggests the "process of converting *all* dates in the database, wherein two digit dates are converted into four digit dates as taught in Shaughnessy" (Emphasis added)

140. It also does not follow from the asserted combination of Shaughnessy and Hazama as proposed by the Examiner because "it follows that one of ordinary skill in the art of programming would know and would be adept at setting parameters to correctly process a set of data," means that the combination of Shaughnessy and Hazama results in the claimed invention. Assuming that the Examiner means "sets of data" to be the recited "all of the symbolic representations of dates" and/or "each symbolic representation of dates" in the database, since Shaughnessy, as noted above, contains no such disclosure. Because of the way Shaughnessy is disclosed to operate, it cannot perform the claimed

process, and therefore, teaches away. Shaughnessy by returning a “parameter” to the program cannot reformat each or all of the date data representations in the data base and then perform further programming “sorting” or “manipulating” on the reformatted date data, since the “parameter” returned to the program is specific to an operation, e.g., comparison, specific only to the two particular date representations being operated on by Shaughnessy for purposes of returning the parameter to the program. The “parameter” simply indicates, e.g., the one date is greater than, equal to or less than the other, and is not correlated to any other date data representation in or extracted from the database for purposes of further processing. It is, therefore, not a conversion and reformatting that “facilitates further processing of the dates” taken from the database as claimed.

141. The Examiner’s comment about Shaughnessy complemented by “logical necessity” disclosing the entire claimed invention is not correct in light of fact that Shaughnessy, with the addition of the selection of a pivot date based on the earliest date in the data base, still does not result in each and every element of the claimed invention.

142. Shaughnessy does not “suggest[] the conversion of all dates within the database from a two digit format to a four digit format as a viable, but costly alternative for the year 2000 problem (col. 1, lines 31-46 et seq).” In the cited passage, Shaughnessy is either saying that as to, e.g., a legacy data base it is difficult and expensive to modify the format, fields, etc. for the data base to only include 4 character date representations, with which applicant is in agreement (see Col. 1, lines 35 – 41 of the Dickens Patent), or teaching away from the applicant’s proposed solution, or both, as the cited passage is not entirely clear as to what would be the objectionable thing to avoid. See also Shaughnessy’s discussion in Col. 4, lines 7-26. The fact that Shaughnessy specifically teaches a separate way than the claimed invention to solve this problem, also teaches away from the claimed invention. At best this cited portion of Shaughnessy recognizes what the problem is that both Shaughnessy and the claimed invention set out to alleviate, but Shaughnessy takes a different approach.

143. Shaughnessy does not "discloses the claimed 'all of the symbolic representations of dates falling within a 10 decade period of time' as a date having a cycle or a range of a 100 years (col. 18, Cycle/Range C1= THE DATE CYCLE IS 100 YEARS)." The table of the Appendix to which the Examiner refers is identified by Shaughnessy as "illustrating a sample of the *types of date formats* the present invention can support." (Col 3, lines 43-45. The fact that a cycle for dates of a given one of may listed formats in the referenced table may be 100 years teaches nothing about the selection of a range of dates that are *in a data base* upon which the method of Shaughnessy is utilized. Indeed, a number of the ranges listed as to which Shaughnessy says "the present invention can support," are longer than 100 years. Once again the teaching of Shaughnessy is away from the present invention, in that it does not require claimed recitation "all of the symbolic representations of dates falling within a 10 decade period of time."

144. For this same reason, it is inappropriate hindsight analysis using only the teaching of the applicant's disclosure to say that:

As pointed out in column 2, lines 11-14 and column 3, lines 4-8 of Patent No. 5,806,063, all dates in commercial and industrial databases span within one 100 year. Shaughnessy's system being of the commercial or industrial kind described in the cited patent, must therefore, as a practical matter, incorporate this limitation.

145. The "commercial or industrial" databases which Shaughnessy invention "can support," are specifically identified by Shaughnessy to include data bases where the data contained could include a span of over 100 years

146. Shaughnessy does not teach:

the step of 'determining a century designator C. sub.1 C. sub.2 for each symbolic representation of a date in the database, C. sub. 1 C. sub.2 having a first value if Y. sub.1 Y. sub. 2 is less than Y. sub. A Y. sub. B and having a second value if Y. sub. 1 Y. sub. 2 is equal to or greater than Y. sub. A Y. sub. B' as the comparison of the current date to the date when the system was installed with the modifications (modified system install date) to thereby determine the century value (col.5, lines 36-65 et seq).

While this portion of Shaughnessy does disclose the form of windowing that Shaughnessy proposes, using the install date as the pivot date, in the context of the remainder of the disclosure of Shaughnessy this is not disclosed to be done for "each symbolic representation of a date in the database," in preparation for and facilitation of further processing of the reformatted symbolic representations. As noted above Shaughnessy does windowing and reformatting for one or two date representations at a time in the called subroutine.

147. The same can be said for the cited portion of Shaughnessy cited to disclose:

the comparison of the YYMMDD portion of the date to the corresponding date portion at the end of the 100 year cycle to thereby determine the century value (col.7, lines 7-15 et seq).

148. Shaughnessy also does not disclose:

the step of 'reformatting the symbolic representation of the date with the values C. sub. 1 C. sub.2, Y. sub. 1 Y. sub.2, M. sub. 1 M. sub. 2 , and D. sub. 1 D. sub. 2 to facilitate further processing of the dates' by appending the determined century value before the YYMMDD date in order to yield a CCYYMMDD date format (col.5, lines 46-51; col.6, lines 57-65 et seq) ...

The "reformatting the symbolic representation of the date" must be read in the context of the earlier claim recitations that define the context of this process limitation to mean performing reformatting on "each" or "all" date data representations that have previously been the subject of the claimed form of windowing prior to this reformatting step. Further the claimed reformatting is to "facilitate further processing of the dates." As noted above, Shaughnessy reformats at most two pieces of date data information from the data base at a time and returns a parameter that gives a result of processing done in the called up subroutine of Shaughnessy, but does not "facilitate further processing of the dates."

149. Shaughnessy does not disclose:

"returning one date field with the converted date to the subroutine and a means for returning a parameter to the application program for use in further operations (col.1, lines 47-54 et seq).

The cited portion of Shaughnessy, which appears to be in Col. 2 as opposed to Col. 1, refers to "passing at least one date field *to* the subroutine [and] a means for *returning a parameter* to the application" The "parameter," is not a reformatted date or dates, and is "for use by the application program in further operation." (Col. 2, lines 53-54, Emphasis added) An example of this is "[I]f the result received from the subroutine [the parameter] indicates that the date the next payment is due is greater than today's date [the program can go on to] indicate that the account is OK." (Col 4, lines 59-61) Shaughnessy also notes as an alternative to the above, the Shaughnessy process may "pass[] at least one date field which is representative of at least two dates *to* the subroutine, determining which if the two dates corresponds to the date field operation according to a predetermined criteria , performing the date operation on the date field, and *returning the parameter* to the application program" (Col. 2, lines 59 – 64, Emphasis added).

150. Contrary to the examiner's assertion at the time of the filing of the Dickens Patent, it is not correct that:

The ordinary skilled artisan having read Shaughnessy would immediately see the need to determine which 100 year span to use. This determination would have led the ordinary skilled artisan to the Hazama reference, which teaches the pivot date being smaller than the smallest two digit date in the database having all the dates within a 100 year period as a solution to restrict the selection of Shaughnessy's window and thereby forcing all dates already stored in the database to fall in the 20th century.

Shaughnessy teaches a very specific way of selecting a one hundred year window, and it is not based on the earliest date in the data base. In this regard Shaughnessy actually teaches away. Further, the import of the latter portion of the Examiner's above quoted view is not understood. The statement regarding "as a solution to restrict the selection of Shaughnessy's window and thereby forcing all dates already stored in the database to fall within the 20th century." If the Examiner mean that this is what Shaughnessy would teach one of ordinary skill or that the combination of Shaughnessy and Hazama would teach one of ordinary skill, then all dates falling in the 20th is a situation in which there is

no Y2K problem to solve, so that either Shaughnessy or the combination of Shaughnessy and Hazama also teach away. Is this the Examiner's intent?

151. In regard to the rejection of claim 9, the cited portion of Shaughnessy, actually including also Col. 5, lines 10 – Col. 6, line 35 refers to the setting by the subroutine of the "current date (box 14), the end of the hundred year cycle (box 16) and the two possible century values (box 18)" for utilization inside the subroutine and has nothing to do with the recited "storing the symbolic representation of dates and their associated information back into the database after the step of reformatting" from claim 9.

152. As to the rejection of claim 9 Shaughnessy also does not disclose "storing the symbolic representations of dates and their associated information back into the database," i.e., after the step of "facilitating the further processing," and after such further processing, e.g., date sorting, the dates and information in Shaughnessy may not be reorganized in the database according, e.g., to the results of the sorting. Further Shaughnessy does not teach doing so without modifying the symbolic representations of dates in the database itself.

153. Booth is non-analogous art and actually teaches away from the present invention as claimed. Booth and the Clipper system described therein use integer dating which does not suffer from the problems sought to be solved by the claimed invention, i.e., there is no Y2K date ambiguity that needs to be addressed in the processing of date data stored in a database according to the Clipper system. Booth does disclose windowing and using a ten decade window, but it is not in the context of the claimed invention. For example, it is not for the purpose of "facilitating further processing of the dates [in the database]." Booth's use of windowing is also not disclosed to be "reformatting the symbolic representation of the date [for each/all representations of dates stored in the database]." In addition Booth does not teach "sorting the symbolic representations of the dates" in a CCYYMMDD or like format, since dates in Booth are sorted by comparison of the integer value that computes to the appropriate date, including its four character year value.

154. Modifying Shaughnessy or the combination of Shaughnessy and Hazama with Booth, which teaches storing and manipulating (operating programs on) date data that is in integer form, would render Shaughnessy and/or the combination of Shaughnessy and Hazama inoperative for their intended purpose(s). The intended purpose for Shaughnessy and Hazama is to correct the problem of Y2K ambiguity for date data stored in a database in a form that gives rise to the ambiguity, and Booth (as does Ohms) stores date data in a form that has no Y2K ambiguity. In the same way, the proposed combination would change the principle of operation of Shaughnessy and/or the combination of Shaughnessy and Hazama.

155. Contrary to the Examiner's assertion, and as indicated by the above discussion of Shaughnessy, Shaughnessy does not disclose "reformatting ... in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates." For this reason, the impropriety of the Examiner's rejection, as discussed above, is further supported.

156. Booth clearly and unequivocally notes that the dates stored in the database being manipulated by Clipper 5 are stored in integer format with a granularity of date days. As Booth notes at p. 939, "Dates are stored internally in such a way that math operations can be performed on dates to derive other dates. Adding an integer to date will result in a future date. Subtracting two dates will result in the number of days between the two." See also Booth at p. 99. Regardless of what Booth may say about date data entry, date display, or the like in the portions of Booth cited by the Examiner, the fact remains that the database of Booth does not use symbolic representations of dates in the Gregorian format, and does not have the Y2K ambiguity problem, since each date as stored is complete with information that indicates it YYYY characters in Gregorian format. Booth's disclosure of windowing in certain contexts, is, therefore, non-analogous art, teaches away from applicant's proposed solution to the Y2K date ambiguity problem, in the same way Ohms does. Further whatever sorting Booth proposes it is not of dates reformatted from a YY date data field representation into a YYYY format for purposes of

being sorted in that format. Booth sorts in integer format simply by comparing the two integers with each other and the information contained in the integer itself is not Y2K ambiguous.

157. Ohms does not disclose:

the claimed 'method of processing symbolic representations of dates stored in a database' by presenting a computer implemented method for processing date[s] outside the twentieth century (see title, p 244 et seq).

The symbolic representations of dates in Ohms' database are in the form of a number representing a unique Lilian date and fully includes all year information such that the Y2K ambiguity problem addressed by the present invention is not even present vis-à-vis the date data stored in Ohm's database. Each Lilian date so stored includes (is convertible to) a representation of a full four character year, without Y2K ambiguity, just as is the case with the integer dates employed by Clipper 5 as described in Booth. In addition Ohms does not call for the dates actually stored in the database to be within a ten decade window. In fact they can be anywhere within the span of days capable of being represented by seven digits (the specific embodiment disclosed, but it could be even more) of days, i.e., over 2000 years.

158. Ohms does not disclose:

'selecting a 10-decade window with a Y. sub. A Y. sub. B value for the first decade of the window, Y. sub. A Y. sub. B being no later than the earliest Y. sub. 1 Y. sub. 2 year designator in the database,' ...

Ohms does disclose selecting a ten decade window for the windowing of date data being entered, but say nothing at all about selecting this ten decade window based upon any span of dates actually stored in the database.

159. Ohms is non-analogous art and actually teaches away from the present invention as claimed. Lilian dating does not suffer from the problems sought to be solved by the claimed invention, i.e., there is no Y2K date ambiguity that needs to be address in the processing of date data as stored by the Ohms system. While Ohms does disclose

viewing and using a ten decade window, it is not in the context of the claimed invention. For example it is not for the purpose of "facilitating further processing of the dates [in the database]." Ohm's use of windowing is also not disclosed to be "reformatting the symbolic representation of the date [for each/all representations of dates stored in the database]." In addition Ohms does not teach "sorting the symbolic representations of the dates" in a CCYYMMDD or like format, since dates in Ohms are sorted by comparison of the integer value that computes to the appropriate date, with the inclusion in the integer value of its four character year value. Indeed, modifying Hazawa, which teaches storing and manipulating (operating programs on) date data that is in, e.g., MMDDYY form, would render Hazawa inoperative for its intended purpose(s). The intended purpose for Hazawa is to correct the problem of Y2K ambiguity for date data stored in a database in a form that gives rise to the ambiguity and Ohms stores date data in a form that is not Y2K ambiguous. In the same way, the proposed combination of Ohms and Hazawa would change the principle of operation of Hazawa.

160. There is no *prima facie* obviousness because there is no motivation to combine non-analogous art, especially where Ohms teaches away from the claimed invention, at least to the extent it teaches addressing the Y2K problem by storing date data in a form that is not susceptible to the Y2k ambiguity problem and does not need to be modified in any way to be able to be fully sorted, manipulated or otherwise processed without concern for any possible confusion between the Lilian value that represents all of the days throughout, e.g., the year 2002, including the fact that they are in the year 2002 and the totally unique and fully determinative integer value that represents each of the days in the year 1902, including the fact that each such day is within the year 1902, or, for that matter, 3002, 4002 and so on. The specific embodiment of Ohms using only seven characters to count the dates would have to be expanded to cover a span of more than 2000 years, however, and the starting date of the first day, e.g., January 1, 1900, would determine, along with the total number count of days, the end of the span that can be covered.

161. The Examiner is misreading the claims. As recited, e.g., in claim 33, the process step calls for:

reformatting the symbolic representation of each symbolic representation of a date in the database, without changing any of the symbolic representations of a date in the database during the reformatting step, ...

or in claim 60 the process step calls for:

by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting; ...

The "symbolic representations of dates in the at least one field of the database" remain unchanged, as discussed in further detail herein with regard to the enabling issue, as the Examiner in the original application noted and as was the subject of an amendment of the claims therein to clarify that point.

162. As to written description, the Specification is reasonably clear in indicating that the applicant as of the filing date of the application leading to the Dickens patent was in possession of the invention, even if new terminology is used in the claims. The claimed sort based upon the reformatted CCYY format is a broader genus. As indicated in the specification and as would have been well known in the art at the time of the filing of the Dickens patent, data may be stored in databases in other than YYMMDD and in which the Y2K ambiguity problem still exists, e.g., YYYYMMDD, where the MMM is a three letter designation of the month. For such date data formats, the present invention, as would be understood by those skilled in the art from the disclosure of the Dickens patent, with or without Exhibit A, is just as useful, along with the reformatting of the YY to CCYY. The claim, therefore, is a broader genus, which would cover the originally recited CCYYMMDD as well as, e.g., CCYYMMDD.

163. The Examiner has taken the position that:

Claims 33, 60-61, 64-65 and 70 call for reformatting to occur 'without changing' or 'without modifying' the symbolic date representations during the reformatting when the specification merely indicates that the YYMMDD date format is reformatted to appear in the form CCYYMMDD (col.3, lines 41-43). It is apparent that the original specification is devoid of any disclosure of how such reformatting is performed 'without changing' or 'without modifying' the symbolic date representation. In fact, the suggestion of reformatting without changing representation is on its face a contradiction, for the reformat is to change representation. Therefore, the claimed limitation reformatting to occur 'without changing' or 'without modifying' is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

164. There is quite an adequate disclosure in the original specification including the Certificate of Correction, from both a written description and an enabling perspective. The addition of the Exhibit A further supports the claim language. The "without modifying" and/or "without changing" recitations refer to the fact that the original database date entry as contained in, e.g., a legacy database itself, is what is not modified. Clearly modification occurs according to the claims of the what is taken from or extracted from the date data field in, e.g., a legacy database, but this modification/reformatting according to the claims is done without also modifying/reformatting the originally stored date data as it is in the database itself and remains so after the converting and reformatting according to the claimed invention. This is adequately described in the written description and fully enabled.

165. The Examiner has taken the position that:

Claims 16-30, 32, 34-67, 69-71, 75 and 76 call for processing relative to a 'pivot date' or 'pivot year' when such terms are nowhere defined or even mentioned in the original specification. Therefore, the claimed limitation 'pivot date' or 'pivot year' is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

166. This term is well known in the art. By way of example, United States Patent No. 6,317,746, entitled SOFTWARE DATE AND TIME SERVICES, issued to Franklin, Jr., et al. on November 13, 2001, and United States Patent No. 6,003,028, entitled IMPLEMENTING EXTENDED NUMERIC RANGE WITHIN A TWO-DIGIT SOFTWARE REPRESENTATION, issued to Koenig on December 14, 1999 use the term in connection with windowing techniques utilizing, e.g., a ten decade window. The Examiner has himself used the term throughout the prior and present Office Actions in rejecting claims with and without the term "pivot year" in the claim language. The term simply means, as the Examiner himself has used it, the starting year for the window.

167. The Examiner has also taken the position that:

Claims 20-21, 62-65 and 71 call for 'reformatting' or 'storing' 'separately' from the symbolic representations in the database or from the database when the original specification merely suggests reformatting or sorting the date. However, the original specification does not disclose such 'separate' reformatting or storing. Therefore, the claimed limitation of 'separate storing' or 'separate reformatting' is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

168. As discussed above with respect to claims 33, 60-61, 64-65 and 70 regarding the 'without changing' or 'without modifying' recitations, the Specification as originally filed along with the Certificate of Correction, adequately discloses and enables the recitations regarding "separate reformatting" and "separate storing." The addition of Exhibit A further supports such recitations.

169. The Examiner has taken the position that:

Claims 16-25, 31-33, 66-67 and 72 call for 'collectively further processing' when the specification makes no mention of such 'collective' further processing. Similarly, claims 36-43 call for 'collectively sorting' or 'collectively manipulating' when the original specification merely suggests sorting and manipulating. However, it does not mention such 'collectively' sorting or

manipulating. Similarly, claims 34-61, 63 and 65 call for the step of 'running a program collectively' when the original specification, perhaps, only implicitly discloses the 'running of the program'. However, such 'collective' running of the program, is not disclosed. Therefore, the claimed limitations of 'collective processing', 'collective sorting', 'collective manipulating' or 'collective running' are new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

170. The original disclosure and claims disclose a process whereby "each" or "all" of the dates stored in a database, e.g., a legacy database, wherein the stored format includes only two year date characters, are reformatted to contain four year date characters, followed by a process of, e.g., sorting or manipulating, based on all of the reformatted dates. The Exhibit A disclosure further supports this interpretation of the claims. The term "collectively" is not used in the original disclosure. However the term serves to define over the art, e.g., Shaughnessy, where, e.g., one date from the database and one fixed date, or two dates from the database, are compared to each other, in the called subroutine, as opposed to all of the data from the database being manipulated, e.g., date sorted "collectively."

171. The Examiner has taken the position that:

F. Claims 36-37, 40-41, 48-49, 51-59, and 69 call for the running of a program after a sorting operation has been performed. However, the original specification does not provide a written description of such running of a program subsequent the step of sorting. Similarly, claims 38, 39, 42-43 call for data manipulation before running of the program. No written description is provided for such data manipulation before running the program in the original specification. Therefore, such limitations are new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

172. As noted in the Specification of the Dickens patent:

Once the symbolic representations of the dates are reformatted according to the procedure set forth above, the date information may be sorted, numeral 38, or manipulated, numeral 40, together with the entries associated with the dates. Such manipulation may include handling of the data associated with the dates, storing the dates and associated information back in the data base, or other processes.

173. In addition, at least Exhibit A shows a sort program run before another program, e.g., a print program.

174. The Examiner has taken the position that:

Claims 46-59 call for "repeating the step of converting at least a substantial portion" of the specified data. The original specification does not disclose the conversion of such substantial portion. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

175. A person skilled in the art at the time of the filing of the application leading to the Dickens patent would have understood from the disclosure of the Dickens patent, with or without Exhibit A, that the storage of databases, particularly of extensive nature, may be contained in memory in variously segmented ways, e.g., on pages of extended memory, or organized by, e.g., data entry number. In addition it would have been understood that the process of the present invention, depending upon the particular application program being utilized and the particular kind of "manipulation" being done, may effectively run on a substantially portion of the database containing a substantial portion of all of the, e.g., date data fields, but not necessarily all of them. Applicant's claims are not limited to only those instances where the recitation "each" or "all" as distinguishing over prior art, e.g., Shaughnessy, would require that each and every date data field is reformatted. In addition those skilled in the art would have appreciated that the database may contain several different date data fields associated with each particular data entry in the database and the sorting or other manipulation may only be concerned with one such field, and the conversion, therefore, only necessary in that instance and only as to that field. The

program listing in Exhibit A is exemplary. For example, the “tools” database may have other date data fields besides “last_inv.dat”, e.g., purchase.dat or last_maintenance.dat. The claims as originally filed would cover that situation and the added claims rejected above by the Examiner simply further clarify this fact.

176. The Examiner has taken the position that:

Claims 34-65 and 70-71 call for ‘converting’ symbolic representations ‘by windowing the symbolic representation’ when the specification merely discloses the selection of a 10 decade window. The verb ‘windowing’ appears nowhere in the specification, and its meaning is unclear. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

177. The disclosure of the Dickens patent, even without Exhibit A, and also with Exhibit A, fully describes the claim recitation “by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database” Windowing is a well known and recognized term in the art, and as noted above the pivot year, meaning the earliest date in the window, is also a well known and recognized term of art. Even if the disclosure of the Dickens patent, with or without Exhibit A, does not specifically use the term “windowing” or the term “pivot year,” one skilled in the art at the time of the filing of the Dickens patent would have understood the disclosure to contemplate and fully describe and enable the claim limitation.

178. The Examiner has taken the position that:

Claims 35, 37, 39, 41, 43, 45, 49, 51, 53, 55, 57 and 59 call for the step of ‘opening the database prior to the step of converting’ when the original specification makes no mention of opening the database. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

179. Applicant asserts that the step of opening the database is at least inherent in the disclosure of the Dickens patent. One skilled in the art would have understood that to get at the date data field stored in the database in the Y2K ambiguous format in order to reformat it to not be Y2K ambiguous, the database would initially have to be opened up for such access. Exhibit A, in addition, specifically includes a program step opening the "tools" database.

180. The Examiner has taken the position that:

Claims 34-65, 70 and 71 call for the avoidance of an 'ambiguity' by reformatting or converting date representation. The original specification merely suggests that dates containing only two digit year representation, and without reformatting, may sort improperly. It does not mention or discuss any such claimed ambiguity.

Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

181. Applicant submits that there is a full description of and enablement of the claims recitation of a process for working on a "database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries," and for the subsequent recitation of "converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity" The specification says that the problem being addressed is:

However, with the turn of the century at Jan. 1, 2000, the representation and utilization of dates becomes more complex. Using the numerical form above, Dec. 15, 2000 is represented as 12/15/00. If a numerical sort is performed on 12/15/93 and 12/15/00, the later date 12/15/00 sorts as the first-occurring date, an incorrect result.

Sets of dates spanning the turn of the century and associated with past, current, and future activities are now stored in many databases. When stored in

the conventional formats discussed above, those dates will not readily be used and numerically sorted in chronological order.

In other words, because of the utilization of only two date data characters, the century of the date is ambiguous, and the process of the present invention will remove that ambiguity. That is, the date data format that is ambiguous in two characters is converted to one in four characters that is not ambiguous in a disclosed embodiment of the invention.

182. The Examiner has taken the position that:

Claims 1-15, 31, 33, 68, 72-74 call for the selection of a 'YAYB value for the first decade' of a window. There is no known meaning for the 'value of a decade' and the original specification is devoid of any description of what the 'value of a decade' is. Because this subject matter was in the original disclosure, such limitation is not new matter. However, it is rejected under the second paragraph of 35 USC 112 because the meaning of the claim phraseology is so devoid as to be wholly indefinite.

183. The specification and claims are perfectly clear on the meaning of the value of $Y_A Y_B$. It is the "first year of the 10-decade window." (Col 3, line 13). The full recitation of the claim to which the Examiner refers recites "selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window" This is precisely the same as saying that the "value" of $Y_A Y_B$ is the two digit year value of the first year in the 10-decade window. Contrary to the Examiner's suggestion, the claim does not call for setting the "value for a decade," even if in the context of the Specification and claim language there would be any doubt that "the value of a decade" is ten years. The claim clearly calls for a " $Y_A Y_B$ value" which is "for the first decade of the [10 decade] window" It is also the same value as for the first year in the 10-decade window.

184. The Examiner has taken the position that:

1. Applicant argues that Shaughnessy does not teach or suggest "*the step of selecting a 10-decade window $Y_a Y_b$ no later than the earliest $Y_1 Y_2$ year*"

designator in the database.” Applicant alleges that Shaughnessy only discloses the selection of a 10 decade window utilizing the date the system was installed. In response, the Examiner respectfully submits that Shaughnessy teaches the selection of a 10-decade window in figure 4 and the necessity of such a window starting with a date no later than the earliest year in the database is taught in Hazama.

185. Shaughnessy does not disclose the claimed “step of selecting ...” Shaughnessy in the Specification and in the discussion specifically of Figure 4, and in Figure 4 itself, does not disclose “YaYb no later than the earliest Y1Y2 year designator in the database.” Specifically, depending upon the determination made in the block 36 of Figure 4 of Shaughnessy, the start date is set to either the “install date” or the “current date,” and then the “100 year cycle” is determined by a selected number of years from the start date of so-called “future dating.” This is explained by Shaughnessy as follows:

FIG. 4 illustrates the steps performed to determine the end of the 100 year cycle. When a system is modified according to the principles of the present invention, several parameters may be specified. The parameters may include the number of years of future dating required (default is 10), the type 2 format, CCYYMMDD, for the modified system install date (default is 19931231), and whether the end of the 100 year cycle is to be updated daily (0 indicates no update of the cycle, 1 indicates daily update of the cycle; default value is 1). The first step in determining the *end of the 100 year cycle* is therefore determining the update frequency for the cycle (box 36). If the cycle is to be updated daily, then the starting date is set to the current date (box 38), as determined above. Therefore, for this example the starting date would be 20000101 if the cycle is to be updated daily. Next, the *end of the 100 year cycle* is determined by adding the number of years of future dating required to the starting date (box 40).

Shaughnessy, at best, describes the selection of a desired end of the 100 year cycle, which indeed may be updated daily. Regard for the earliest date in the database is not considered. Both the install date and the current date may result in a 100 year window that will incorrectly translate dates in the database into the 21st century by Shaughnessy’s disclosed method, or will at some point in time, if updated daily, begin to do so.

Shaughnessy ignores or, at best, teaches away from the claimed process step of "selecting a 10-decade window YaYb no later than the earliest Y1 Y2 year designator in the database."

186. The Examiner has further taken the position that:

2. Applicant argues that neither Shaughnessy nor Hazama teaches or suggests *"the step of determining a century designator CI C2 for each symbolic representation of a date in the database, CI C2 having"* Applicant alleges that the teaching of Shaughnessy or Hazama is to determine a century designator for at most two date representations being processed in a called subroutine at a given time. In response to the preceding argument, the Examiner respectfully submits that even under the allegation above, the Shaughnessy-Hazama combination would still disclose the claimed limitation as long as the references teach or suggest the determination of a century designator for each date in the database. As discussed in the office action, Shaughnessy determines a century designator for converting a current date from a six-digit to an eight digit format before the converted date is returned for use in a particular application. Shaughnessy determines the century value (19 or 20) by comparing the current date to the corresponding date portion when the system was installed with the modifications. Further, Shaughnessy suggests that the above approach can be used to determine a century designator for converting each six digit date in a database to corresponding eight digit dates. However, Shaughnessy refrains from such an approach, though capable of curing the year 2000 problem, on economic instead of technical grounds, since it might not be cost efficient. To the extent applicant is arguing that Shaughnessy fails to extrapolate the operation of date conversion from a single instance to an entire database, it is first noticed that one of ordinary skill in the art extrapolates single operations to batch processing of an entire database as a matter of automation efficiency, it is secondly pointed out that Shaughnessy teaches that its date conversion processing would be inserted for every occurrence of date processing, i.e. across the entire input gamut, col. 4 lines 27 to 33, and it thirdly noticed that Shaughnessy even provides a specific example of checking the due dates in a

database for being overdue col. 4 lines 38 to 43. Further, Hazama complements Shaughnessy by disclosing the use of a pivot date that is smaller than any other date in the database to compare each date in the database with the pivot date to thereby determine whether each two digit year in the database should be preceded by 19 or 20. Therefore, the Shaughnessy-Hazama combination does teach the above limitation, as claimed.

187. The Examiner's combination of Shaughnessy-Hazama does not "teach or suggest the determination of a century designator for each date in the database." In the first place, neither reference expressly teaches performing the claimed process step on "each" date representation in the database. They teach calling up a subroutine if an application program encounters an ambiguous date representation. The fact that eventually the application program may encounter all of the dates, does not mean that the combination of the references teach performing in the specific sequence of process steps in the claims, first the reformatting of each of the dates and then sorting, manipulating, running a program, or the like, on them with respect to all of the date representations amounting to "each of the date representation" as recited in the claims. In addition, even if the processes disclosed by Shaughnessy or Hazama or the combination of these references eventually could or might get to all date representations does not amount to a disclosure of the sequence of steps specifically recited in the claims regarding the "processing of symbolic representations of dates stored in a database," as to determining a century designator for each symbolic representation of a date in the database," followed by the step of "reformatting the symbolic representation of the [each such] date ... to facilitate further processing of the dates." While the claim does not recite "each such" this is implicit from the rest of the claim language and from the disclosure.⁶

⁶ Furthermore, as noted above, those skilled in the art would have understood from the disclosure of the Dickens patent, with or without Appendix A, that "each" while it is distinguished from the processes of Shaughnessy and Hazama does not necessarily mean each and every possible date data stored in the database. While that is most often the case in the operation of the claimed process, e.g., if the database is organized using, e.g., pages or sections of memory, and in the context of a given application program, "each" may mean each on a given page or in a given section and the application program may be able to deal with the reformatted group of "each of the date data representations," on a page by page or section by section basis, or may require reformatting of every one of the dates in every date data field having only two character date data information before continuing on to do the sorting of manipulating or otherwise run a program, after the process of the present invention has reformatted "each" of the date representations to

188. The Examiner is incorrect to assert that:

Shaughnessy determines a century designator for converting a current date from a six-digit to an eight-digit format before the converted date is returned for use in a particular application.

Shaughnessy returns a "parameter," which itself is not information from which the reformatting of the date data used to generate the "parameter" can be determined.

189. The Examiner is also not exactly correct in framing applicant's assertion with regard to what Shaughnessy suggests as to whether:

the above approach can be used to determine a century designator for converting each six digit date in a database to corresponding eight digit dates. However, Shaughnessy refrains from such an approach, though capable of curing the year 2000 problem, on economic instead of technical grounds, since it might not be cost efficient.

Shaughnessy's discussion comports with applicants, i.e., that to modify the existing legacy database is highly impractical, if not impossible. That is, as noted above, and in applicant's Specification, with or without Exhibit A, one does not want to change the legacy data base itself, e.g., its organization, data formats and sizes, etc. within, e.g., the date data fields, and/or with respects to, e.g., links, etc., employed in the data base, which might also have to be changed if a date data field is modified, e.g., enlarged to an entirely new date data field to accommodate, e.g., the expanded year date data containing the century designator. Shaughnessy proposes a solution, and Hazama proposes a solution, but they are not the solution of the claimed invention.

190. The Examiner's suggestion of "extrapolation," of Shaughnessy's approach into the claimed invention is hindsight reconstruction of the process disclosed in Shaughnessy. It is incorrect also for the Examiner to assert that this "extrapolation," amounts to simply multiplying the process steps proposed by Shaughnessy to cover the entire database:

facilitate further processing. Nevertheless, whether done on a page by page, sections by section, etc. basis or done throughout the entire database before "further processing," this method is distinguished from either Shaughnessy of Hazama or the combination of these references.

To the extent applicant is arguing that Shaughnessy fails to extrapolate the operation of date conversion from a single instance to an entire database, it is first noticed that one of ordinary skill in the art extrapolates single operations to batch processing of an entire database as a matter of automation efficiency ...

To do so does not result in the claimed invention, since, at least, Shaughnessy does two by two comparisons (either of a date from the database and a fixed date or two dates from the database) and returns a "parameter" indicative of the results of that single two by two comparison. Even if multiplied over and over to go through the entire data base, it is still not the claimed process.

191. The Examiner is also incorrect to assert that:

Shaughnessy teaches that its date conversion processing would be inserted for every occurrence of date processing, i.e. across the entire input gamut, col. 4 lines 27 to 33 ...,

or, even if correct, this is not the claimed invention, because Shaughnessy's "data conversion processing," as noted above, is not according to the claimed invention.

192. The specific portion of Shaughnessy referenced (and a continuing portion) discuss one embodiment of a process according to Shaughnessy's method in which:

In accordance with the present invention, the current date operation routines nested in the body of the application program would be replaced with a call to one of a plurality of subroutines stored externally from the existing application program, as opposed to the date operation routine being reprogrammed to perform the date operation in a new format. The subroutines will be able to accommodate the date format currently employed by the application program, thus making it unnecessary to convert all of the date fields in files containing data used by the application program over to the new date format. For example, if an application program for a bank performed a date comparison to determine when loan payments were overdue, the point in the source code which previously performed the comparison may have program statements which performed the following functions:

1. Compare date next payment is due to today's date;
2. If the date next payment is due is greater than today's date, indicate that the account is OK.

If the system which ran the above application program were modified in accordance with the principles of the present invention, then the program statements which performed the above functions would be modified to include program statements which did the following:

1. Call the subroutine which performs the date comparison passing today's date, the date next payment is due, and a three byte parameter, the first byte of which identifies the format of today's date, the second byte of which identifies the format of the date next payment is due, and the third byte of which is left available for a return code indicative of a result of the comparison;
2. If the result received from the subroutine [indicated by the returned parameter] indicates that the date next payment is due is greater than today's date, indicate that the account is OK.

193. This is simply a very different process than the one recited in the claims, as noted above, even if performed over and over again to compare, e.g., sets of due dates to the current date as stored in the database, and as provided to the subroutine, until all of the entries in the database are examined. Therefore, while Shaughnessy may "provide[]" a specific example of checking the due dates in a database for being overdue col. 4 lines 38 to 43," Shaughnessy does so by other than the claimed invention.

194. The Examiner has also taken the position that:

3. Applicant argues that neither Shaughnessy nor Hazama teaches or suggests the step of *'reformatting the symbolic representation of the date with the values*

C1C2, Y1Y2, M1M2, and D1D2 to facilitate further processing of the dates.'

Applicant alleges that the teaching of Shaughnessy or Hazama is to reformat two dates at a time in the called [sic] result of the processing of the two reformatted date data entries, and not to facilitate further processing of the dates by reformatting the symbolic representations of the dates (claim 4). In response to the preceding argument, the examiner respectfully submits that the Shaughnessy-Hazama combination does disclose the reformatting of the dates in the C1C2Y1Y2M1M2D1D2 format to facilitate the further processing of these dates. Shaughnessy's conversion of the current date of an operating system from a six digit format to an eight digit format each time said date is going to be used in application. Such reformatted dates are further utilized by returning one date field with the converted date to the subroutine and by returning a parameter to the application program for use in further operations. As explained above, Shaughnessy suggests that such approach can be extended to reformat dates already stored in database such that they can be used for further processing. Therefore, the Shaughnessy-Hazama combination does teach the above limitation, as claimed.

195. The above discussion of Shaughnessy is reiterated here, including, e.g., the discussion of the claimed invention dealing with "all" and "each" in the claimed process sequence resulting in the "facilitat[ion] of the further processing of the dates." In addition Shaughnessy does not:

return[] one date field with the converted date to the subroutine and by returning a parameter to the application program for use in further operations.

and also does not:

suggest[] that such approach can be extended to reformat dates already stored in database such that they can be used for further processing,

or, at least does not suggest doing so in the context of "facilitating the further processing of [each of] the dates" Shaughnessy sends a date field to the subroutine and returns a parameter that is lacking in any indication of the date itself, whether as originally stored in the database or as converted by Shaughnessy within the subroutine for purposes of the functioning of the subroutine to create and return this parameter.

196. The Examiner has taken the position that:

5. Applicant argues that neither Shaughnessy or Hazama teaches or suggests the step of '*reformatting each symbolic representation of a date in a format C1C2YJY2M1M2D1D2 (claim 5), nor sorting the symbolic representations of dates in numerical order sort (claim 6), nor storing the symbolic representation of dates and their associated information back into the database (claim 9); nor manipulating information in the database having reformatted date information therein (claim 10).*' In response to the preceding argument, the examiner respectfully submits that with regards to claim 5, Shaughnessy discloses the limitations as discussed above in paragraph 3 of the remarks. Regarding claim 6, Shaughnessy, Hazama and Booth disclose the cited limitation, see discussion above in paragraph 4 of remarks. Regarding the limitation of claim 9, Shaughnessy discloses the step of storing the symbolic representation of dates and their associated information back into the database, as discussed in the office action. Shaughnessy teaches the storing in the database of current date after it has been converted from the six digit format to the eight digit format. Further, Shaughnessy suggests that such an approach can be extended to dates in a database. Consequently, Shaughnessy discloses the claimed limitation of claim 9. Regarding claim 10, Shaughnessy and Hazama disclose the cited limitations as discussed above in paragraphs 3 and 4 of the remarks.

197. In addition to the above discussion, Shaughnessy does not disclose:

the step of storing the symbolic representation of dates and their associated information back into the database, as discussed in the office action. Shaughnessy teaches the storing in the database of current date after it has been converted from the six digit format to the eight digit format.

Shaughnessy suggests that modifying the date data field in a legacy database and storing modified dates from an existing legacy database in such a modified date data field is possible but not practical. Such a modification is an undesirable alternative to the present invention as well, as noted above. The solution of the present invention is significantly different from the one suggested in Shaughnessy.

198. The Examiner has taken the position that:

14. Applicant argues that Booth does not teach or suggest the step of 'selecting $Y_A Y_B$ such that Y_B is 0 (zero),' as recited in claim 8. Applicant alleges that even though SET EPOCH can and does use pivot years ending in 0, it is not a process according to the claimed invention. In response to the preceding arguments, the Examiner respectfully submits that Booth does disclose Y_B to be zero by selecting $Y_A Y_B$ to be equal to 90. See page 942. It is noted that Applicant's arguments that Booth's teaching is not a process according to the claimed inventions fails to comply with 37 CFR 1.111 (b) because they amount to a general allegation that the claim define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant simply alleges that the cited limitations are not taught by Shaughnessy without actually explaining how these limitations are distinguishable from the corresponding portions in Booth on which the Examiner relied to establish the prima facie case. See page ... of the office action. Consequently, Applicant has failed to successfully rebut the rejection of claim 8. Generally, Applicant bears the burden of explaining why the evidence on which the Examiner relies is insufficient to establish a prima facie case or demonstrating that Applicant has provided evidence which rebuts the prima facie case. See *In re Rouffet*, 149 F.3d 1350, 1355 47 USPQ2d 1453, 1455 (Fed. Cir. 1998). Furthermore, Shaughnessy's process would select a Y_B value of 0 for one year out of every 10 when operated with daily update, col. 6. lines 4 to 45.

199. In addition to the above discussion, the fact that Booth may disclose the setting of a pivot year with a zero in the second place is not the claimed setting of the claimed $Y_A Y_B$ with a zero in the Y_B , because in the steps of the claimed process $Y_A Y_B$ is selected as earlier than the earliest date in the database, so that the claimed $Y_A Y_B$ is not just any pivot date but one selected as recited in the claim. As selected by Booth there is no disclosure of any regard being taken to the earliest date in the database. The same applies to the Examiner's reference to Shaughnessy, even if the fact Shaughnessy might sometimes unintentionally select a pivot year with a zero in the second place, depending

upon the installation date or the updated installation date, or the like, is a disclosure of affirmatively carrying out the claimed step in the claimed process to so select the $Y_A Y_B$, which it is not.

200. The Examiner has taken the position that:

15. Applicant argues that Ohms does not teach or suggest the step of *'Providing a database with symbolic representations of dates stored therein according to a format wherein M1M2 is the numerical month designator, D1D2 is the numerical day designator and Y1 Y2 is the numerical year designator; all of the symbolic representations falling within a 10-decade period of time, as recited in claim 1.'*

Applicant alleges that Ohms does not disclose the above limitations since Ohms teaches providing a database with the dates in a Lilian format. In response to the preceding arguments, the Examiner respectfully submits that Applicant's reading of Ohms is incorrect. Ohms teachings are not limited to dates in Lilian format. As discussed in the office action, Ohms discloses the storing of dates in a database in Gregorian format, wherein said dates are converted from a six digit format (YYMMDD) to an eight digit format (YYYYMMDD). See page 247, table 1. Ohms further teaches that the dates stored in the database do fall within a ten decade period. See page 249. Consequently, the rejection is proper.

201. In addition to the above discussion, as noted Ohms does not disclose storing dates in the database in Gregorian format, and certainly does not disclose storing in Gregorian form any of the dates that are windowed for date data entry convenience. The entire point of Ohms is to avoid such a format in the storing of the date data by employing a Lilian format.

202. The Examiner has taken the position that:

17. Applicant argues that Ohms does not teach or suggest the step of *'determining a century designator C1 C2 for each symbolic representation of a date in the database, C1 C2 having ...'* Applicant contends that Ohm teaches entering date data into the database to be converted into Lilian format for storage and

manipulation within the database. Applicant further alleges that since the conversion in Lilian format does not require the determination of a century designator for data in the database, then Ohms cannot teach such limitation. In response to the preceding arguments, the Examiner respectfully submits that Applicant misread Ohms' teachings. As pointed out above, Ohms' teachings are not limited to conversion in Lilian format. Ohms also discloses the conversion of dates stored in a database in Gregorian format from a six digit format to an eight digit format to include the century designator. See page 247, table I and page 248.

203. In addition to the above discussion, even if Ohms discloses "conversion," Ohms does not do so as to dates "stored in the database," since they are in need of no such conversion, and does not do so for purposes of "facilitating further processing of the dates."

204. The Examiner has taken the position that:

18. Applicant argues that Ohms does not teach or suggest the step of 'reformatting the symbolic representation of the date with the values C 1 C2, Y 1 Y2, M 1 M2, and D 1 D2 to facilitate the further processing of the dates.' Applicant contends that Ohms does not disclose such limitation since it teaches reformatting into Lilian format and thereafter processing the date data in the database utilizing the Lilian format. In response to the preceding arguments, the Examiner respectfully submits that, as pointed out above in the remarks, Ohms' teachings are not limited to reformatting in Lilian format. Ohms discloses the reformatting of a short Gregorian date having six digit into a Gregorian date having eight digits. See page 247, table 1.

205. In addition to the above discussion, even if Ohms performs "reformatting" it is not of the "dates stored in the database" and it is not for the purpose of "further facilitating processing of the dates," since Ohms facilitates processing of the dates by storing them in the database in Lilian format.

206. The Examiner has taken the position that:

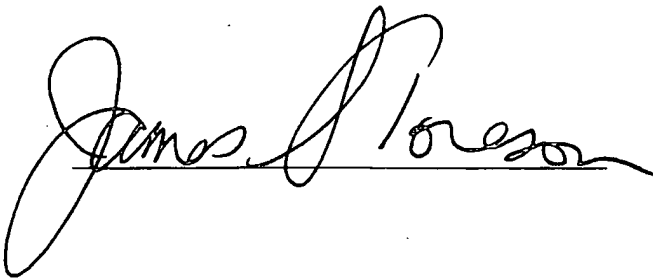
19. Applicant argues that Ohms does not teach or suggest the steps of sorting the symbolic representations of dates (claim 4); or reformatting each symbolic representation of a date into the format C1C2Y1Y2M1M2D1D2 (claim 5) or sorting the symbolic representations of dates and their associated (claim 6) or storing the symbolic representation of dates and their associated information back into the database (claim 9) or after the step of reformatting, manipulating information in the database having the reformatted date information therein (claim 10) or converting pre-existing date information having a different format into the format wherein M1M2 is the numerical month designator, D1D2 is the numerical day designator and Y1Y2 is the numerical year designator or selecting YaYb such that Yb is 0 (zero) (claim 8). In response to the preceding arguments, the examiner respectfully submits that it was conceded in the office action that Ohms does not teach the limitations of claims 4, 6, and 8. However, Booth was relied upon to complement Ohms' teachings in order to reject the cited claims. Regarding claims 5, 9 and 10, it was pointed out in the office action that Ohms teaches the reformatting of short order Gregorian dates having six digits into Gregorian dates having eight digits to thereby store the converted dates in the database for further use and processing. The limitations of these claims were fully addressed in the office action. It is noted, however, that Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Applicant simply alleges that the cited limitations are not taught by Ohms without actually explaining how these limitations are distinguishable from the corresponding portions in Ohms on which the Examiner relied to establish the *prima facie* case. See page ... of the office action. Consequently, Applicant has failed to successfully rebut the rejection of claims 4-10 as laid out in paragraph ... Generally, Applicant bears the burden of explaining why the evidence on which the Examiner relies is insufficient to establish a prima facie case or demonstrating

that Applicant has provided evidence which rebuts the prima facie case. See *In re Rouffet*, 149 F.3d 1350, 1355 47 USPQ2d 1453, 1455 (Fed. Cir. 1998).

207. In addition to the above discussion, Ohms' does not reformat date data having six characters into "Gregorian dates having eight digits to *thereby store the converted dates in the database for further use and processing ...* ." Ohms stores dates in the database in Lillian format for further use and data processing. At least this element of the claims is missing from the combination relied upon by the examiner to find *prima facie* obviousness. In addition, as noted above, Ohms does not reformat dates "stored in the database," from the recited YY format to the recited CCYY format, and does not do any such reformatting for purposes of "facilitating further processing of the dates."

208. I James S. Toreson, make the above statements based upon my own knowledge and experience as one skilled in the art at the time of the filing of the application leading to the Dickens patent and based upon my review and understanding of the documents referenced in Paragraph 2 above. I make these statements of my own knowledge, or if based upon information and belief, based upon my so being informed and believing the statement to be true. I make these statements with the knowledge that willful false statements are punishable by fine or imprisonment under 18 U.S.C. §1001 and like statutes and laws and that such willful false statements may jeopardize the validity of the above referenced application and any patent(s) that may arise from this proceeding.

Respectfully submitted,

A handwritten signature in black ink, reading "James S. Toreson". The signature is written in a cursive, flowing style. The first name "James" is written with a large, looped capital "J". The last name "Toreson" is written with a capital "T" and a long, sweeping underline that extends under the entire signature.

James S. Toreson

11210 Briarcliff Lane
Los Angeles, CA 91604

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Fx: 323-656-0424
jtoreson@msn.com

Objective : Seeking a senior management position in an entrepreneurially oriented company, engaged in the business of Information Technology ("IT") either in the development of software or hardware products, or in the provision of IT services, that will challenge my executive skills in leadership, creative problem solving and business development.

Statement of Qualifications Over 25 years in the electronics industry with 16 years of experience as chief executive. Business environments include: start-ups, initial public offerings, R&D partnerships, far-east joint- ventures, acquisitions, divestitures, and turn-arounds. Experience in executive management includes:

- **MARKETING:** 25 years of experience in the world market for small computer peripherals and 20 years of experience in the personal computer industry. Specific management experience includes: product management, distribution channel management, advertising and promotional management, and international marketing.
- **ENGINEERING:** Formally educated as a computer engineer, having specific design expertise in analog and digital electronics, software, integrated circuits and magnetic storage device technology.
- **MANUFACTURING:** 20 years of experience in manufacturing including: quality control, materials management, JIT production, process control, and manufacturing engineering. Eight years of experience in flexible automation, statistical process control (SPC), and quality systems including ISO 9000 and Six Sigma programs.
- **FINANCE:** Experience in IPOs, reverse mergers, negotiating bank financing, equity financing, leasing, and debt restructuring. Seven years of experience in SEC financial reporting and investor relations for publicly held corporations. Raised over \$100 million in the public and private equity markets.

Professional Experience

1990 - Present **ONSHORE, INC., Reno, Nevada**

Owner

Founded ONSHORE in 1990 as a management consulting business, specializing in serving companies involved in computer technology based products and services. Key assignments and results have been:

- VP Marketing and Sales of APPIANT Technology, Inc. a NASDAQ company in the business of providing software and ASP services for speech recognition enabled, unified messaging, unified communications and call centers. Developed a business plan for global call center business; landed orders totaling several millions of dollars for unified messaging and call center services and sourced a multi-million dollar equity capital infusion.
- VP Business Development of eSpaces, a company in the business of providing physically secure and cyber-secure, cost-effective, "smarter" work space for knowledge workers of small and medium-sized businesses in multi-tenant buildings and campuses using state-of-the-art technologies in physical security, cyber security, information technology, communications and Internet. Created the business concept, developed the business plan and established strategic partnerships with corporations such as RSA, Dell Computer, and Sandia Labs.
- VP Business Development of Sanctuary Critical Storage, Inc., a company in the business of provided secured mass storage for Internet data centers. Developed business plan and established strategic partnerships with corporations such as RSA, Dell Computer, and EMC.

**Professional
Experience
Cont'd**

- CEO of Forte Systems, Inc., an application software development company specializing in developing custom software for the automotive industry that facilitates Web based B2B eCommerce. Developed business plans, established multi-million dollar contract with General Motors and developed two \$5 million merger deals with NASDAQ companies.
- Interim president of APAQ Technology, Inc., a manufacturer of personal computers. Developed a nationwide, multi-million dollar business with CompUSA. Developed and marketed a new line of personal computers for the NT server market and the high-end, NT-based technical workstation market for CAD/CAM and 3D animation applications.
- Interim president of a start-up company in the business of designing, manufacturing and marketing, a patented CD-ROM parallel recording system.
- Interim president for a company in the business of PC-based casino gaming machines.
- President of a company in the UNIX-based computer market. This company built its own hardware and did its own UNIX port. A major new product was developed to enter into the market for fault-tolerant mass storage systems.

1987 – 1990

OMNISHORE, INC., Carson City, Nevada

CEO

Founded OMNISHORE as a world-class manufacturer of computer components and systems. In the first years of operation, the company landed major contracts from Dell Computer, Control Data Corporation, Proteon, Memorex-Telx and several other companies. The sales in the first year grew to over \$10 million dollars. Had direct responsibility for sales and marketing. Successfully negotiated a line of credit with Fidelcor for over \$10 million dollars. Manufacturing technologies included: printed circuit board assembly using surface-mounted devices (SMT) and through-hole devices, Winchester disk drive assembly in class 100 clean rooms, and complete turn-key manufacturing of personal computers.

1974 – 1987

XEBEC CORPORATION, Sunnyvale, California

CEO

Founded Xebec in 1974 to enter the hard disk controller market with only \$5,000 of capital. The company grew on retained earnings to over \$30 million by 1982. In 1982, the company won a \$300 million contract from IBM to design and manufacture a hard disk controller for the PC-XT personal computer. In one year, revenues grew to over \$150 million, which was fueled by an IPO and secondary offerings with proceeds of over \$80 million. Led a product and customer diversification program to alleviate the high account concentration of the IBM business. This strategy was successful and led to the spinout of several businesses. Significant accomplishments include:

- Designed, manufactured and marketed the world's first micro-programmed, error correcting disk controller for high performance hard disk drives, attached to various minicomputers of this era.
- Designed, manufactured and marketed the world's first, low cost, gate array based error correcting disk controller for 5-1/4" hard disk drives, attached to various microcomputers of this era. This technology was used to create the IBM PC XT product line.
- Established a state-of-the-art, high volume, high quality, automated manufacturing facility in the USA for the assembly of printed circuit boards. This operation achieved worldwide recognition for superior quality, including the worldwide top quality award from IBM.
- Created the following subsidiaries to diversify the company's dependency on IBM: OMNISHORE, in the business of contract-manufacturing computer equipment and subassemblies; DASTEK, in the business of thin-film magnetic heads; INFORMATION MEMORIES, in the business of thin-film media; AHEAD TECHNOLOGY, in the business of mechanical heads; and EPELO, in the business of Winchester disk drives.

**Professional
Experience
Cont'd**

1973 – 1974

SPECTRA PHYSICS, Mountain View, California

Engineering Manager

Successfully led a team of 25 people to design and manufacture a universal product code (UPC) reader for the supermarket industry. This led to a \$10 million dollar order from NCR Corporation and launched Spectra-Physics into a leadership position in the field of supermarket scanners.

1971 – 1973

HEWLETT PACKARD, Mountain View, California

Project Manager

Designed and put into production several minicomputer products including Universal I/O interfaces, line printers controllers and the world's first fully micro-programmed minicomputer, the HP-21MX. Developed the LSI strategy for the Data Systems Division, which led to the successful establishment of a state-of-the-art CMOS Silicon-on-Sapphire process and high performance, low power custom LSI circuits.

1969 – 1970

MEMOREX, Santa Clara, California

Project Manager

Founder and project manager for a business unit that built modems, multiplexers, and communications front ends for IBM mainframe computers. Was chief architect and design engineer for remote multiplexer product line and Autocall feature for the Memorex 1270 terminal control unit. Key member of the design team that developed the Memorex 1275, a micro-programmed terminal control unit to compete with the IBM 3705.

1967 – 1970

BELL LABORATORIES, Holmdel, New Jersey

Project Manager

Contributed to the design of a, highly reliable (99.9998% uptime), fault-tolerant computer telephony system for use in the telephone network operated by Bell Telephone Company. Designed a state-of-the-art analyzer for real-time software debugging.

Education

BSEE, University of Michigan, 1967, with Honors
MSEE, University of Michigan, 1968, with Honors
PhD EE, University of Pennsylvania (Completed Coursework)
Dr. Ltrs., University of Nevada, 1985

**Professional
Societies**

TAU BETA PI, ETA KAPPA NU, IEEE, SME

**Patents and
Publications**

Author of several patents in the Winchester disk drive and controller field

**Speaking
Engagements**

Conference Speaker at NASA, Dataquest, InfoCorp, Robotics West, etc.
Commencement Speaker, University of Nevada
Several "Road Show" Presentations to Security Analysts

**Government
Committees**

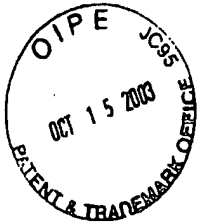
"Education For the Manufacturing World of the Future," National Academy of Engineering
"Educational Excellence K-12," Nevada Governor's Committee

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: LeRoux, E.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
<u>Dickens-Soeder2000,LLC</u>)	
Reexamination Proceeding:)	
90/005,592)	
<u>Filed: December 21, 1999</u>)	
Reexamination Proceeding:)	
90/005,628)	
<u>Filed: February 2, 2000</u>)	
Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

Applicant's Replacement Appeal Brief
Evidence Appendix B
B(2) Winner Declaration

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: Coby, F.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
<u>Dickens-Soeder2000,LLC</u>)	
Reexamination Proceeding:)	
90/005,592)	
<u>Filed: December 21, 1999</u>)	
Reexamination Proceeding:)	
90/005,628)	
<u>Filed: February 2, 2000</u>)	
Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

**Applicant's Appeal Brief
Appendix C
Winner Declaration**



IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

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OCT 22 2003

Technology Center 2100

Merged Proceedings
Reissue Application No.:)
09/512,592)
United States Patent No.:)
5,806,063)
Issued: September 8, 1998)
Applicant:)
Dickens, Bruce M.)
Reexamination Proceeding:)
90/005,592)
Filed: December 21, 1999)
Reexamination Proceeding:)
90/005,628)
Filed: February 2, 2000)
Reexamination Proceeding:)
90/005,727)
Filed: May 16, 2000)
Response to Office Action

Group Art Unit: 2177

Examiner: Jean Homere

Box AF
Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

Responsive to the Office Action dated April 16, 2003, the Applicant hereby
submits the following:

DECLARATION OF EXPERT WITNESS

I, Mark Winner am presently a software consultant to Boeing/McDonnell Douglas as a Senior Software Systems Engineer. In my current contract with Boeing the following business accounting systems have been my responsibility; Cost Charge Number System, Work Authority System, Merit Review System, Integrated Graphics Load, Labor Accounting and Reporting, Contract Status Information System, Manual Journals Vouchers, Rate Management System, Affordable Staffing, among others.

A large part of my responsibility has been for the migration of applications from old architecture to new Common Boeing Systems and new Web based applications. Part of this migration effort was to convert the HR systems to People Soft. I was involved in the selection and evaluation of the People Soft package, and the conversion and migration of applications to the Web. Labor accounting, cost charge number maintenance system, and reporting were redeveloped and deployed onto the Web. The department matrix for the company reorganization during the Rockwell/Boeing merge was also converted. I was also responsible for oversight of the company's Year 2000 Project, e.g., relating to accounting applications. This included the initial impact estimates of the project scope for accounting applications of the Expendable Launch Systems Division. Manpower estimates and requirements for project scope within corporate guidelines were provided. Also various organizations were worked with to determine if application processes could be achieved by other manual methods or migrated to other organizational Year 2000 compliant systems. Business critical and non-business critical systems with year 2000 risk had remediation plans written. Project statuses were managed, reported, and presented.

Systems and infrastructure were maintained, and users were supported with their ongoing needs. Support efforts were made to migrate and replace applications and hardware with newer technologies by migrating to Web based applications and client/server based applications were more cost effective. Technical support was provided by working with users in the system selection process or design and development of new Web based applications.

The above activities utilized the following languages: Cold Fusion, Java, Java Script, HTML, Dreamweaver, Visual Basic, Microsoft Basic, Access, Delphi, Crystal Reports, XML, Versata, ASP, Perl, ftp/tcpip/http, Versata and Rational Rose UML. Hardware and operating system platforms included NT, HP-UX/UNIX, IBM-AIX, HP3000 and IBM 3090's. Other Languages included Basic, Cobol, Fortran, ALC, TSO, VMS, CICS, Cognos, Protos, C, PL1, Pascal, SPF. Data Bases included Oracle 7.3, 8.0, 8I; Microsoft SQL Server; DB2 and Access DB.

In a prior employment at McDonnell Douglas I had Responsibility for maintenance of the Human Resources System including Compensation, Employee Biography, Employee Verification, Absence Tracking, Loan Verification, Employee Rate History, Ride Share, Merit Review, Seniority Training, Classified Materials Management System, and Medical Examination System. These systems were developed in Cobol and supported and enhanced with Supertool, Qedit, MPEX, Nbspool, Adager, MRJE, Allbase/SQL, Image/Query, NS3000 Communications and FTP. All above systems were network interfaced to be accessible to both local LAN systems and company corporate WAN's. Tools used included Novell NetWare 3.12, 4.00, 4.01. All systems were multi-server and fault tolerant. Communications were via dial-up and lease lines including TCP/IP.

A copy of my resume is attached to this Declaration.

2. I have studied United States Patent No. 5,806,063, issued to Dickens on September 8, 1998 on an application filed on October 3, 1996, entitled DATE FORMATTING AND SORTING FOR DATES SPANNING THE TURN OF THE CENTURY ("the Dickens patent"). I have also studied US. Patent No. 5,630,118, entitled SYSTEM AND METHOD FOR MODIFYING AND OPERATING A COMPUTER SYSTEM TO PERFORM DATE OPERATIONS ON DATE FIELDS SPANNING CENTURIES, filed on November 21, 1994 and issued on May 13, 1997 to Shaughnessy ("Shaughnessy"). I have also studied a translation of a published Japanese Application No. 05-027947, published on February 5, 1993, naming Masakazu Hazama as the inventor ("Hazama"). I have Studied the article of Ohms, B. G. *Ohms, Computer Processing of Dates Outside the Twentieth Century*, IBM Systems. Journal, Volume 25, Number 2, 1986, pages-244-51, ("Ohms"). In addition I am familiar with the Clipper 5 operating system as it existed on the date of the filing of the Dickens patent and have specifically reviewed the portions to which the Examiner in the above referenced Merged proceeding has made reference. I have also studied portions of the prosecution history of the Dickens patent before it was originally issued as mentioned in this Declaration. I have also studied the claims of the Dickens patent as originally issued and those added in the Reissue application in the

above referenced Merged Proceeding. I have in addition reviewed the content of Exhibit a filed with the dickens patent application.

4. I base my opinions expressed in this Declaration upon my knowledge of the art as a person of at least ordinary skill in the art at the time of the filing of the Dickens patent and on the above referenced materials which I have reviewed.

5. I understand the Dickens patent in its Specification, with or without the Exhibit A referred to in the body of the Specification to have disclosed to one of ordinary skill in the art to which it pertains at the time of its filing the following:

6. The Dickens patent notes, initially, that "[d]ates are stored as symbolic representations in computer data bases in varying formats." (Col. 1, lines 10-11) Examples of such formats are given as a "numerical representation MM/DD/YY, where MM is a two-digit month designator, DD is a two-digit day designator, and YY is a two-digit year designator (the last two digits of the year). ... A date may also be represented in an alphanumeric for MMM/DD/YY, where MMM is an alphanumeric month designator (e.g., DEC for December" (Col. 1, lines 11-20)

7. Also notes the Dickens patent "[s]ets of dates spanning the turn of the century and associated with past, current, and future activities are now stored in many databases. When stored in the conventional formats discussed above, those dates will not readily be used and numerically sorted in chronological order." (Col. 1, lines 31-35)

8. Further, the Dickens patent notes that "Using the numerical form above, Dec. 15, 2000 is represented as 12/15/00. If a numerical sort is performed on 12/15/93 and 12/15/00, the later date 12/15/00 sorts as the first-occurring date, an incorrect result." (Col. 1, lines 28-30)

9. The Dickens patent also notes "[t]hey [the symbolic representations of dates suffering from the problem of the system being unable to distinguish dates 'spanning the turn of

the century'] may be manually converted to a more useable form in the sense that programs may be written to perform conversions, manipulations, and sorting. However, these programs typically require additional data fields for storage, which may be objectionable in some circumstances." (Col. 1, lines 35-40) The Dickens patent also notes "[t]he database includes information in the form of symbolic representations of dates and associated information such as events occurring on the respective dates." (Col. 2, lines 48-50)

10. As stated in the Dickens patent:

The present invention provides an approach to the representation and utilization of dates stored symbolically [as defined above] in databases. Existing symbolic date representations [as defined above] are converted to a more useful form of symbolic date representations *without the addition of new data fields*, and in a manner that is performed automatically by the computer and requires no user input. (Col. 1, lines 49-55, Emphasis added)

11. The Dickens patent goes on to explain:

a method of processing dates stored in a database [symbolically as described above] comprises the steps of providing a database with the dates stored therein according to a [symbolic] format [as discussed above, in which] $Y_1 Y_2$ is the numerical year designator A century designator $C_1 C_2$ is *determined for each date in the database*, $C_1 C_2$ *Each date in the database is formatted* with the values $C_1 C_2 Y_1 Y_2$ (Col. 1, line 57 – Col. 2, line 3, Emphasis added)

12. The Dickens patent also notes:

The computer database 26 is provided, numeral 30, having symbolic representations of dates stored therein.

...

A ten decade window is selected, numeral 32. That is, it is necessary that all dates in the database will be within some period of 10 decades, or 100 years.

...

The symbolic representations of the dates in the database are reformatted with the values $C_1C_2 Y_1Y_2 \dots$. In one case that produces particularly advantageous results for many operations, such a chronological date sorting, the date is represented in the form $C_1C_2 Y_1Y_2 \dots$.

Once the symbolic representations of the dates are reformatted according to the procedures set forth above, the date information may be sorted, numeral 38 or otherwise manipulated, numeral 40, together with the entries associated with the dates. Such manipulations may include handling of data associated with the dates, storing the dates back in the dates and information back in the data base, or other processes. (Col. 2, line 60 – Col. 3, line 55)

13. The Dickens patent further notes that:

the present invention thus provides an efficient approach to converting and utilizing symbolic date representations in databases [without requiring additional or modified data fields for storage in the existing database] which allows automatic processing of dates ranging from before to after the year 2000. The large number of dates represented in some databases may thereby be readily processed and utilized. (Col. 2, lines 22-27)

14. Claims 1 and 11 as originally filed recited:

“reformatting the symbolic representation of the date [in the database] with the values $C_1C_2, Y_1Y_2, M_1M_2, D_1D_2$,” and “reformatting each date [in the database] in the form $C_1C_2, Y_1Y_2, M_1M_2, D_1D_2$ ” respectively.

15. The Examiner rejected these claims on the basis of lack of enablement, since:

[t]he ‘conversion of existing symbolic date representations ... without the addition of new data fields’, as indicated at page 2 lines 7-10, is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. ... The problem set forth in the last four lines of page 1 and promised in the first paragraph of page 2, as well as in the lines quoted above, indicate that

the invention solves the Y2K problem without introducing additional digits. The claims, the abstract and the description of the invention in the SUMMARY clearly involve century digits C_1C_2 , which increase the number of date digits from 6 to 8, thus using 4 digits to indicate the year. *One of ordinary skill in the art would not know how to resolve this discrepancy.* (Office Action of November 17, 1996, at page 2, Emphasis added)

16. The applicant responded in an Amendment of March 17, 1997. The applicant's counsel noted:

As stated in the application, many existing databases contain date representations that are defined only by the decade and year designations (i.e., Y_1Y_2). Because these databases do not provide date designations for the century associated with each date, it will be impossible to discern the order of dates in a database after the turn of the century.

To properly and efficiently address this problem, a method for converting dates in databases was needed. This method should accept dates from data storage, discern the proper century designation for each date, and reformat the dates with the century designation.

The claimed invention provides a method of processing symbolic representations of dates stored in a database. ... Finally, the method of the claimed invention includes the step of reformatting the symbolic representations of the dates into corresponding values of C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 . These values can then be used to manipulate the dates, such as by sorting the dates in chronological order.

In a typical operation of the claimed invention, the method performs date conversions on a database that includes dates from both the twentieth and twenty-first century. ...

... The method of the present invention further includes the step of reformatting the symbolic representations of the dates into values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 *These dates can then be used for several operations such as date sorting.*

Advantageously, the method of the claimed invention can be implemented as an initial step in any database manipulation program. For instance, the method of the claimed invention may be embodied in computer software code that *preprocesses a database prior to beginning the remainder of the data manipulation program.* In this embodiment, the method initially converts the data from the varying formats, *determines the century designation for each date, and reformats the dates such that the dates may be used by the database manipulation program for such operations as sorting and printing*¹ the dates. In this embodiment of the present invention, *the dates are temporarily converted and reformatted for use by the manipulation program.* However the method of the present invention need not store the converted date in data storage. Instead, the *original dates in the data storage remain undisturbed.* This aspect of the present invention thus allows conversion of dates to compensate for century designations *without requiring the addition of data fields to permanently store the century designations.* (Emphasis added)

17. In addressing the specific rejection of the original Examiner applicant's counsel also notes:

[T]he Office Action objects to the disclosure for implying that the current invention does not require additional data fields for storage to solve the year 2000 problem [and] rejected all of the claims ... as based on a disclosure that is not enabling. In particular the Office Action states that the conversion of the existing symbolic date representations without the addition of new data fields is critical or essential to the invention but not included in the claims.

As described below, the method of the claimed invention does not require that the converted data that includes the century designations be stored in data storage. Likewise ... the amended set of claims does not require storage of the converted data and therefore imposes no requirement for new data fields. ...

¹ It is not apparent from this discussion of the disclosure of the Dickens patent whether applicant's counsel was relying also on the content of Exhibit A, but only Exhibit A in the disclosure as originally filed refers to performing a printing program after a sorting program. The Examiner did not object to this reference to performing a sorting program or a printing program.

As stated in the background of the invention, conventional date formatting systems typically require additional data fields for storage to accommodate the century designations. These additional data fields are necessary because conventional systems disclose a permanent reformatting of stored data. The claimed invention, on the other hand, does not require that the reformatted data be permanently stored. Instead, the method of [the] claimed invention encompasses embodiments in which the date information is initially reformatted and converted to have century designations, but does not require that the reformatted dates be stored. As stated previously, the method of one embodiment of the claimed invention reads the dates from the database and temporarily reformats the dates with century designations. Data manipulation programs are then performed on these reformatted dates, such as sorting the dates. However, once the data manipulations are complete, the reformatted dates need not be stored in data storage.

18. Disclosed in Shaughnessy is a "system and method for modifying and operating a computer system to perform date operations on date fields having a two digit representation for the year without erroneously mistaking the years 2000 *et seq.* for the years 1900 *et seq.*" (Col. 1, lines 11-14)

19. As a solution to this problem, Shaughnessy proposes:

[i]n accordance with the present invention, the current date operation routines nested in the body of the application program would be replaced with a call to one of a plurality of subroutines stored externally from the existing application program, *as opposed to the date operation routine being reprogrammed to perform the date operation in a new format.* The subroutines will be able to *accommodate the date format currently employed* by the application program, thus making it *unnecessary to convert all of the data fields in files containing data used in the application program over to the new data format.* (Col 4, lines 27-38, emphasis added).

20. As an example Shaughnessy describes a program that would "perform[] a date comparison to determine when loan payments are overdue" (Col.4, lines 39-40)

21. According to the Shaughnessy method, the:

program statements which performed the above functions would be modified to include program statements which did the following:

1. *Call the subroutine which performs the date comparison passing today's date, the date the next payment is due, and a three byte parameter, the first byte of which identifies the format of today's date, the second byte of which identifies the format of the date next payment is due, and the third byte of which is left available for a return code indicative of the result of the comparison;*

2. *If the result received from the subroutine indicates that the date next payment is due is greater than today's date, indicate that the account is okay.* (Col 4, lines 48-62, emphasis added)

22..In order to do this, Shaughnessy suggests that "for the subroutines to be able to accommodate different date formats, certain information, namely the current date, end of 100 year cycle, and two possible century values, must be determined and made available to the subroutines." (Col. 4, line 66 - Col. 5, line 3) In addition, Shaughnessy teaches that "each subroutine that performs a date operation will include a call to another subroutine which can determine this information." (Col. 5, lines 3-5)

23. Further according to Shaughnessy "[t]he above-mentioned information will be used in the subroutine(s) to assign a century value to the two digit representation of the year of the dates to be operated on such that the subroutine can accurately perform its intended function." (Col. 5, lines 21-25) According to the Shaughnessy method this is performed using a form of windowing in which:

[t]he current date is determined ... in a format which utilizes a four digit representation for the year. Initially, the current date is set to the operating system date in the format 00YYDDD ... by way of example ... 0094263 The current date is then compared to the date the system was installed with the [date

conversion] modifications (modified system install date) ... which, for the sake of example, is 1994032 If the YYDDD portion of the current date, 94263 is greater than or equal to the corresponding portion of this modified system install date, 94032 ... then the century of the current date is set to the century of the modified system install date" ...

If the current date appeared less than the modified system install date ... in the 00YYDDD format ... then the current date century would be set in the format CCYYDDD to the century value for the modified system install date plus one
(Col 5, lines 31-57)

24. The Shaughnessy method then determines "the end of the 100 year cycle" according to "several parameters [which] may be specified." These "may include the number of years of future dating required (default is 10), ... and whether the end of the 100 year cycle is to be updated daily" (Col. 6, lines 4-13) "If the cycle is to be updated daily, then the starting date is set to the current date ..., as determined above. ... Next, the end of the 100 year cycle is determined by adding the number of years future dating required to the starting date" (Col 6, lines 17-22).

25. Further, explains Shaughnessy:

The application program currently operating in a particular computer system may have a comparison of two date fields as part of its operation. If so, the source code which performs the comparison can be replaced with a call to DS2000R1, the name given to an exemplary comparison subroutine useful in practicing the present invention

As illustrated in FIG. 8, the call DS2000R1 ... is inserted into the application program, and includes parameters P1, P2, and P3. P1 and P2 are the date fields which are to be compared. For example, P1 could be "DATE-NEXT-PAYMENT-DUE" and P2 might be "TODAY" as referenced in the above sample of modified source code. P3 is a three byte field in which the first two bytes define the type of date field P1 and P2, respectively. The third byte is a return

code which will be set to a value indicative of the result of the comparison. (Col. 8, line 35 - Col. 9, line 53)

26. In summary, the teaching of Shaughnessy is to "[c]all the subroutine which performs the date [operation] passing [two dates] and the three byte parameter [including] a return code indicative of the result of the [operation]." Windowing occurs only in the called subroutine and in a manner other than that of the invention claimed in the Dickens patent as originally issued and/or as added in the Reissue application. Moreover, this "on call" or "on the fly" windowing of at most two date data entries at a time is not the subject matter of such invention.

27. There is, therefore, no teaching or suggestion in Shaughnessy of:

selecting a 10-decade window with a $Y_A \cdot Y_B$ value for the first decade of the window, $Y_A \cdot Y_B$ being no later than the earliest $Y_1 \cdot Y_2$ year designator in the database; ...

The Shaughnessy method selects a 10-decade window utilizing the "date the system was installed."

28. There is also, therefore, no teaching or suggestion in Shaughnessy of:

determining a century designator $C_1 \cdot C_2$ for each symbolic representation of a date in the database, $C_1 \cdot C_2$ having ... ; ...

The teaching of Shaughnessy is to determine a century designator for at most two date data representations being processed in a called subroutine at any given time.

29. There is also, therefore, no teaching or suggestion in Shaughnessy of:

reformatting the symbolic representation of the date with the values $C_1 \cdot C_2$, $Y_1 \cdot Y_2$, $M_1 \cdot M_2$, and $D_1 \cdot D_2$ to facilitate further processing of the dates.

The teaching of Shaughnessy is to reformat at most two dates at a time in the called subroutine and the return to the program from the called subroutine of an indicator of the result of the processing of the two reformatted date data entries. Shaughnessy does not

teach facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

30. There is accordingly also no teaching or suggestion in Shaughnessy of:

sorting the symbolic representations of dates; (claim 4).

The method of Shaughnessy does not teach sorting all of the "symbolic representations of dates." It teaches only the comparison of one date to a fixed date or two dates to each other in the called subroutine and returning to the program an indication of the result of the comparison.

31. There is also no teaching or suggestion in Shaughnessy of:

reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$ (claim 5), nor sorting the symbolic representations of dates using a numerical-order sort (claim 6); nor storing the symbolic representation of dates and their associated information back into the database (claim 9), nor manipulating information in the database having the reformatted date information therein (claim 10).

32. In addition, there is no teaching or suggestion in Shaughnessy of:

converting pre-existing date information [within a database] having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator (claim 7).

33. In addition, there is no teaching or suggestion in Shaughnessy of:

selecting $Y_A Y_B$ such that Y_B is 0 (zero) (claim 8).

34. Japanese Published Patent Application, HEI 5-27947, entitled METHOD OF GUARANTEEING YEAR ORDER, with inventor Masakazu Hazama, published on February 5, 1993 ("Hazama") discloses a system "to guarantee the year order, even for

years after 2000 AD, with the current file format, even when the year is managed by the last two digits of the date in digital files.” (Hazama, at 2)

35. The system of Hazama, like Shaughnessy, discussed above, modifies a date in a record using a “correspondence utility module (10).” (Hazama, at 2) For that single record “the position in the record where the last two digits AD had been previously stored are specified” to the module 10 from “external parameter 9.” Hazama further notes that “the processing section will replace the code of the 10’s place in the last two digits of the date with a code that maintains the year order.” (Hazama, at 4)

36. A form of windowing is applied. Hazama notes that “the following processing is performed by the module (10):” (Hazama, at 5) This is then followed by “Work area output processing (5): data that have undergone replacement processing (4) are output to the work area (8).” (Hazama, at 6)

37. Referring to Figure 1 in Hazama, it is more clearly demonstrated that Hazama is not more applicable to the patentability of the claimed invention than Shaughnessy, as discussed above. The data from a record is moved from the processor “work area” 8 to the “Year 2000 date correspondence utility module” 10. A modified date, after some form of windowing, for that single record is returned to the work area 8 for processing.

38. Hazama, like Shaughnessy, therefore, does not disclose or suggest the claimed invention.

39. There is also, therefore, no teaching or suggestion in Hazama nor in the combination of Shaughnessy and Hazama of:

determining a century designator C_1 C_2 for each symbolic representation of a date in the database, C_1 C_2 having ... ; ...

The teaching of Hazama, or Shaughnessy in view of Hazama, is to determine a century designator for at most two date data representations being processed in a called subroutine/module at any given time.

40. There is also, therefore, no teaching or suggestion in Hazama, or Shaughnessy in view of Hazama, of:

reformatting the symbolic representation of the date with the values C_1 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 to facilitate further processing of the dates.

The teaching of Shaughnessy, or Shaughnessy in view of Hazama, is to reformat at most two dates at a time in the called subroutine/module and the return to the program from the called subroutine/module of an indicator of the result of the processing of the two reformatted date data entries or a single modified date from a single record. Neither Shaughnessy nor Shaughnessy in view of Hazama teaches facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

41. Accordingly, there is also no teaching or suggestion in the combination of Shaughnessy and Hazama as applied by the Examiner of:

sorting the symbolic representations of dates; (claim 4).

42. There is also accordingly no teaching or suggestion of:

reformatting each symbolic representation of a date into the format C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 (claim 5), nor sorting the symbolic representations of dates using a numerical-order sort (claim 6); nor storing the symbolic representation of dates and their associated information back into the database (claim 9), nor manipulating information in the database having the reformatted date information therein (claim 10).

43. In addition, there is accordingly no teaching or suggestion of:

converting pre-existing date information [within a database] having a different format into the format wherein M_1 M_2 is the numerical month designator, D_1 D_2 is the numerical day designator and Y_1 Y_2 is the numerical year designator (claim 7).

44. In addition, there is accordingly no teaching or suggestion of:

selecting $Y_A Y_B$ such that Y_B is 0 (zero) (claim 8).

45. Ohms teaches a “[m]ethod[] of using existing date formats across century boundaries The use of a format termed the Lilian date format ... is introduced.” (Ohms, at 244, Abstract) Ohms teaches that “[t]he two positions traditionally used in both Julian and Gregorian date formats implicitly represent a year within a century. However, this system is inadequate for representing dates in more than one century.” (Id. at 245) As a solution Ohms proposes a “Lilian date format [to] avoid[] the ambiguity by using seven positions for the number of the days from the beginning of the Gregorian calendar, October 15, 1582.” (Id. at 245) “The value is incremented by one for each subsequent day.” (Id. at 246) Ohms explains that “the Lilian date format is presented here as the basis for making date conversions This format handles processing across century years and other aspects of date conversion not currently adaptable to computer programming.” (Id. at 244-45)

46. In this context, of database conversion to Lilian format from more traditional Gregorian or Julian formats, Ohms describes under the heading “Accommodating end users” the fact that they “usually enter two digits for the year in a date and understand the ambiguity that this represents.” (Id. at 248) Ohms goes on to say that:

to avoid adverse user reaction, [by requiring the entry of date data in other than two digits] programs must continue to function with only two digits for year. The inference of the year 1997 from 97 and 2003 from 03 must continue. For the exceptional case where the correct meaning could be 1897 and 1903, entry of all four digits may be required. (Id. at 248)

47. It is in this context also that Ohm notes:

it may be necessary to provide a conversion function that receives a definition of the implied century as a parameter. An excellent way to do this unambiguously is to specify a year as the desired starting point of a 100-year range. For example, if the starting year for the range is specified as 1925, dates with year digits between

25 and 99 would be between 1925 and 1999, and dates with year digits of 00 through 24 would lie between 2000 and 2024. (*Id.* at 248)

48. Ohms, or the combination of Ohms with either Hazama or Hazama along with Booth, therefore, simply teaches storing dates in a database in Lilian format which "handles processing across century years" and "[a]ccommodating end users" who "enter two digits for the year" by "providing a conversion function" using the known technique of windowing for data entry only.

49. Clipper 5A, described in Booth, in a fashion very similar to Ohms' use of the Lilian date format, as discussed below, operates with date data stored in databases representing dates in the form of a number, often referred to as integer date formatting.² Each unique number represents a date or a time and date down to a specific time increment, e.g., a milli-second, starting with a certain date or date/time and counting to the limits of the number of binary places available, e.g., 32, incrementing the chosen time increments.² As noted, each integer could represent a day or day/time incremented by the value of the integer from a start date or date/time. That is to say, the total time period that can be represented depends upon the starting date or date/time, the number of unique combinations of, e.g., 32 bits, and the increment counted, e.g., days, seconds, milli-seconds, etc.³

² This is the same as the Lilian format disclosed in Ohms, however, only the date is stored in Lilian format, according to the teaching of Ohms, and the Lilian date format, strictly speaking, starts with the beginning of the Gregorian calendar. Ohms, however, does disclose a modified Lilian format starting at some other arbitrarily selected starting date. According to the discussion in Booth, at 949-951, Clipper may count integers for year/date separately from hours, minutes and seconds on a given date, but Booth discloses at 951 using a single number, an integer for the year/date, and a decimal component for the elapsed seconds from midnight on the particular year/date. This simply makes Clipper even more identical to Ohms' disclosure of a modified Lilian integer date with the integer representing some day incrementally counted from some starting day, spanning over several centuries. In this format, as noted, each incremental number represents a day or a moment in time, *each such day or moment being, by definition, a part of a fully defined and recoverable four digit year date datum.*

³ Booth, at 939 ("Dates are stored internally in such a way that math operations can be performed on dates to derive other dates. Adding an integer to a date will result in a future date. Subtracting two dates will result in a number of days between the two.") Booth, at 99 ("The date type is used to represent calendar dates. Clipper stores dates internally in such a way that a variety of operations can be performed on them. You can determine the number of days between two dates by subtracting them, and you can determine a future date by adding an integer value to a date value. The result will be a date value, some number of days in the future.")

50. It is also true of dates stored in integer format, as is also the case with the dates stored in Lilian format, that there is no Y2K ambiguity problem in regard to dates stored in a database in these formats. Booth, therefore, like Ohms, does not even suffer from the problem that the claimed invention is meant to address. Knowing the starting point (the starting date in Lilian, or the starting date or date/time in integer), the granularity (i.e., one day in Lilian and, e.g., one day or one second or one milli-second in integer), and the incremental difference between the starting point and the integer date number stored in either the Lilian or integer format, the stored date is known, including the year to four digits. Therefore, included within what is so stored in the database is the information needed to determine a century designator. No possible Y2K ambiguity problem can exist or does exist when storing dates in a database in these formats. The claimed invention does not relate to databases with dates stored in these formats. The claimed invention involves databases with dates stored in them where there is an ambiguity because only two digits of date data are present in the stored information, from which to determine the full date, including a century designator. Every date stored in a database in Lilian or integer format, by definition, already has a century designator; can not possibly be ambiguous due to reaching the end of a century⁴; and never needs to have a century designator determined, whether by the method of the claimed invention or otherwise.

51. For this reason alone, Booth, like Ohms, has nothing to do with the invention as claimed in the Dickens patent other than providing another disclosure of a utilization of windowing with a ten decade window for a purpose unrelated to that for which such windowing is used in the inventions as claimed in the claims of the Dickens patent as originally issued and as added in the Reissue applications. In fact, it teaches away from the claimed invention.

52. Booth describes a number of functions that the programming language utilizes to read or write dates into the database, display dates on a screen, find the difference between

⁴ Even at the end of the time span that can be represented, e.g., as noted below Clipper dates run until December 31, 2999, there is no "ambiguity." The system simply cannot express a date beyond the given span (without changing the parameters, e.g., the length of the integer number or the granularity).

two dates or a date/time equal to a given date/time plus some incremental time period, to find the day of the week of a given date/time, and like functions. Like Ohms and Shaughnessy, some of these functions employ windowing in some fashion or another. Like Shaughnessy, when they do employ windowing these programming routines "[c]all the subroutine which performs the date [operation] passing [information] indicative of the result of the [operation]." Windowing occurs in the called subroutine in a manner other than that of the claimed invention. Such "on call" or "on the fly" windowing of at most two date data entries at a time is not the subject matter of the claimed invention.

53. By way of example, I have been informed that Booth includes "an easy way to validate a character string used as a date," and/or check for "correctly formatted dates that are not reasonable or even possible," and/or to select a "'safety' date which no [date being entered] can precede [, or] maximum allowable date." (Booth, at 526-28) In addition Booth describes "date manipulation capabilities." Clipper "provides three settings which control the display of dates," [e.g.,] "whether or not the year portion of a date is display [sic] with four digits (including the century) or two digits (not including the century)," [and] "different date display formats." (*Id.* at 939-40)

54. Booth also describes a "SET EPOCH command" which, in the same way as Ohms, "informs the system how to handle date data entry that use only two digits for the year." According to this function, "[w]hen a two-digit year is entered into a date, its year digits are compared with the year digits of the epoch setting to determine the century to place the date into. If the two digits are prior to the setting of SET EPOCH, the year is assumed to be in the next century. If the digits are greater than or equal to the SET EPOCH setting, the year is assumed to be in the current century." (*Id.*, at 941)

55. This is virtually identical to the utilization of windowing to enter dates into a database (where they are then stored in Lilian format) that is disclosed in the Ohms article, as discussed by the Applicant as noted below. In the SET EPOCH function disclosed in Booth, the pivot year defaults to 1900, which "forces any date entered to be considered a

date in the twentieth century.” This also means that in this mode, no Y2K date ambiguity problem is recognized or accommodated, even in date data entry.

56. Booth also discloses a function DTOC(), i.e., “[t]he date to character function [which] takes a date variable ... and returns a string representation of the date. The string is recreated in the format specified by the SET DATE or the SET DATEFORMAT command. If SET DATE has not been specified, the default date format is mm/dd/yy.” (*Id.*, at 944) Also disclosed is a function DTOS() “date to string function” which “takes a date variable ... and returns a string in the format YYYYMMDD” The formats available for SET DATE are set forth on page 940 of Booth.

57. There is, therefore, no teaching or suggestion in Booth, or in the combination of Shaughnessy, Hazama and Booth, of:

providing a database with symbolic representations of dates stored therein :
according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is
the numerical day designator, and Y_1Y_2 is the numerical year designator, all of the
symbolic representations of dates falling within a 10-decade period of time.”

Booth’s “method of processing symbolic representations of dates stored in a database” teaches utilizing a database with the symbolic representations of dates stored therein in the form of unique integers or numbers, each representative of a unique day or other more granular moment in time, or a combination of a unique day and a number representing a unique time on that day. This is not storage in a M_1M_2 , D_1D_2 , Y_1Y_2 format. In addition, there is no teaching or suggestion that those dates all fall within a 10-decade period of time. So far as Booth teaches the dates stored in the database can be any span of dates capable of being represented over the span of time capable of being represented by the particular integer date system being used.⁵

58. There is also no teaching or suggestion in Booth, or in the combination of Shaughnessy, Hazama and Booth, of:

⁵ Booth, at 99 (“Clipper supports all dates from January 1, 100AD through December 31, 2999.”)

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database; ...

Booth selects, e.g., "nyear" in order to "handle dates that use only two digits for the year [w]hen a two-digit year is entered into a date [by comparing] its year digits ... with the year digits of the epoch setting to determine the century ...," (Id., at 941). There is no teaching or suggestion of any consideration of "the earliest $Y_1 Y_2$ year designator in the database."

59. There is also, therefore, no teaching or suggestion in Booth or the combination of Booth with the references as applied by the Examiner, of:

determining a century designator $C_1 C_2$ for each symbolic representation of a date in the database, $C_1 C_2$ having ...;

There is no need to determine a century designator for each symbolic representation of a date in Booth's database, since each is already stored with the century designator included in the date datum so stored in integer format. In addition, the teaching of Booth is to determine a century designator on an individual date datum basis for date data entry, date display, incrementally determining a date based upon a given initial date datum, etc. This calling of certain functions disclosed by Booth to, for example, display a date, or compare two dates, or increment a date from a starting date, are virtually identical to the pertinent disclosure in Shaughnessy, discussed by the patent owner as noted above. As I have been informed has been noted by the patent owner before, Shaughnessy was properly considered by the original Examiner not to have been relevant to the patentability of the claimed invention.

60. There is accordingly also, therefore, no teaching or suggestion of:

reformatting the symbolic representation of the date with the values $C_1 C_2$, $Y_1 Y_2$, $M_1 M_2$, and $D_1 D_2$ to facilitate further processing of the dates.

Booth, like Ohms, does not need to do the recited reformatting, since the dates stored in the database in their original format already contain all the information needed to determine the four digit designation of the date, including the century of the particular

date datum. The process of the claimed invention is not needed for dates stored with the century designator already known from what is stored and the Y2K ambiguity not present. Furthermore, the teaching of Booth, like Shaughnessy, is to reformat one or two dates at a time in a called Clipper date functionality and the return to the program from the called subroutine with information resulting from the performance of the programming functionality, e.g., an input to a display, a result of a comparison, a newly calculated date, etc. Booth does not teach facilitating "further processing of the dates" by "reformatting the symbolic representation of the date" "for each symbolic representation of a date in the database."

61. Accordingly, there is also no teaching or suggestion of "sorting the symbolic representations of dates," as recited in claim 4. These are the reformatted symbolic representations. Whatever sorting Booth teaches does not need to first reformat the date data, since the integer format can be and is sorted in its initial format. The method of the claimed invention, including the reformatting steps is simply not relevant to a database that stores date data as Clipper does, in integer format, as described in Booth.

62. There is accordingly also no teaching or suggestion of "reformatting each symbolic representation of a date into the format $C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2$," as recited in claim 5. Neither is there a disclosure of "sorting the symbolic representations of dates using a numerical-order sort," as recited in claim 6. There is no disclosure of "storing the symbolic representation of dates and their associated information back into the database," as recited in claim 9 nor "manipulating information in the database having the reformatted date information therein," as recited in claim 10.

63. In addition, accordingly, there is no teaching or suggestion of "converting pre-existing date information [within a database] having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator," as recited in claim 7. This process step is recited as part of the "step of providing the database" upon which the subsequent process steps recited in the claimed invention, are carried out. The fact that Booth, or other art,

teaches converting date data from one format into the recited format, does not teach it as part of the process of the claimed invention. Similarly, there is no teaching or suggestion in Booth of "selecting $Y_A Y_B$ such that Y_B is 0 (zero)," as recited in claim 8, even though SET EPOCH can and does use pivot years ending in 0. SET EPOCH, as noted above, is not a process according to the claimed invention.

64. There is no teaching or suggestion in Ohms or Booth of:

providing a database with symbolic representations of dates stored therein according to a format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator, and $Y_1 Y_2$ is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time; ...

Unlike this recitation of claim 1, Ohms and Booth teach providing a database with the dates in a Lilian or integer format.

65. There is accordingly also, therefore, no teaching or suggestion of:

providing a database ... all of the symbolic representations of dates falling within a 10-decade period of time; ...

Ohms and Booth teach having data in the database in Lilian or integer format, i.e., in the former case within a ninety-nine million day window (seven chronological day date numbers starting at a given date).

66. There is accordingly also, therefore, no teaching or suggestion of:

selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window, $Y_A Y_B$ being no later than the earliest $Y_1 Y_2$ year designator in the database; ...

Ohms and Booth teach or suggest selecting a $Y_A Y_B$ for the first decade based upon dates that are being input into the database.

67. There is accordingly also, therefore, no teaching or suggestion of:

determining a century designator C_1 C_2 for each symbolic representation of a date in the database, C_1 C_2 having ... ;

Ohms teaches entering date data into the database to be converted into Lilian format for storage and manipulation within the database. He does not teach or suggest determining a century designator for data in the database. Lilian format needs none.

68. There is accordingly also, therefore, no teaching or suggestion of:

reformatting the symbolic representation of the date with the values C_1 C_2 , Y_1 Y_2 , M_1 M_2 , and D_1 D_2 to facilitate further processing of the dates.

Ohms teaches reformatting into Lilian format for purposes of facilitating the later processing of the date data in the database utilizing the Lilian format.

69. Ohms would not have made the claimed invention as recited in claim 1 obvious to a person of ordinary skill in the art at the time the invention was made, under 35 U.S.C. §103. As explained above, not only does Ohms not teach or suggest the claimed invention recited in claim 1, it clearly teaches away from virtually every step of the method of the claimed invention as recited in claim 1. The same can be said of Booth.

70. The combination of Ohms with Hazama, or Ohms with Hazama and Booth would not have made the claimed invention as recited in claim 1 obvious to a person of ordinary skill in the art at the time the invention was made, under 35 U.S.C. §103. As explained above, not only does Ohms not teach or suggest the claimed invention recited in claim 1, it clearly teaches away from virtually every step of the method of the claimed invention as recited in claim 1. The combination of these references would not result in there being present all of the elements of the claim as recited in claim 1 of the Dickens patent as issued. The same can be said of Booth.

71. For like reasons accordingly there is also no teaching or suggestion of:

sorting the symbolic representations of dates (claim 4); or reformatting each symbolic representation of a date into the format C_1 C_2 Y_1 Y_2 M_1 M_2 D_1 D_2 (claim 5); or sorting the symbolic representations of dates using a numerical-order sort

(claim 6); or storing the symbolic representation of dates and their associated information back into the database (claim 9).

72. There is also accordingly no teaching or suggestion of:

The method of claim 9, including the additional step, after the step of reformatting, of manipulating information in the database having the reformatted date information therein (claim 10).

73. In addition, accordingly, there is no teaching or suggestion of:

converting pre-existing date information having a different format into the format wherein $M_1 M_2$ is the numerical month designator, $D_1 D_2$ is the numerical day designator and $Y_1 Y_2$ is the numerical year designator (claim 7) or selecting Y_B such that Y_B is 0 (zero) (claim 8).

74. The above is also applicable to claims 11-15 in the Dickens patent as originally issued.

75. The above discussion as to claims 1-3, 5, 7, 9 and 11-12 is also applicable to claims 16-18, 20, 22, 24-25 added in the Reissue application.

76. The above discussion of claims 2, 4 and 6, is also applicable to claims 19, 21, 23 added in the Reissue application.

77. Neither Shaughnessy, nor Ohm, nor Booth nor Hazawa, nor any combination of these references discloses or suggests the claimed invention as recited in Claim 16. At a minimum, as noted above, these references separately or collectively fail to teach or suggest "reformatting the symbolic representation of each symbolic representation of a date in the database ...". Further, at a minimum, they do not teach or suggest doing the reformatting "without the addition of any new data field to the database ...". In addition there is no teaching or suggestion of "the reformatted representation of each date in the

database having the values C_1, C_2, \dots , in order to facilitate collectively further processing the reformatted symbolic representations ... of each of the dates."

78. Ohms and Booth, utilizing Lillian and integer date formats, respectively, do not reformat dates in the database at all, and do not even have the Y2K ambiguity problem addressed by the present invention. Shaughnessy and Hazama encounter a date datum and call a subroutine or module to process the single date, or at most two dates, for resolution of the Y2K ambiguity problem. This is not the claimed invention, as distinguished from these references by at least the recitations noted above in regard to the originally issued claims and, e.g., in paragraph 67.

79. As to claim 19, neither Shaughnessy, nor Ohm, nor Booth nor Hazawa, nor any combination of these references discloses or suggests the claimed invention as recited in Claim 19. For the reasons noted above, the "symbolic representations of [each of the] dates [in the database]" is not taught to be produced, and/or is not taught to be produced according to the method of the claimed invention, as recited in claim 16. Therefore, whatever sorting is done in these references is not the claimed sorting.

80. The same is true with respect to claim 20, as was the case with claim 19, as noted above. In addition the references do not teach or suggest "reformatting each symbolic representation of a date ... separately from the symbolic representations in the database."

81. With respect to claim 22, to the extent that the references or any of them discloses or suggests "converting pre-existing date information ..." as recited in claim 22, they do not teach or suggest doing so as a part of the method recited in the allowable claim 16.

82. With respect to claim 23, the same can be said as with respect to claim 22 above.

83. With respect to claim 24, neither Ohms, Shaughnessy, Booth nor Hazama, nor any combination of these references teach or suggest "storing the symbolic representation of dates and their associated information back into the database." Ohms and Booth do not

store symbolic representations of dates, as recited, but instead store dates in, respectively, Lilian or integer date formats. Shaughnessy does not send any reformatted date data for storage anywhere outside at most the subroutine/module called to handle one or two date representations at any given execution of the subroutine/module. The same is true for Hazama as understood from the translation. Even so at best, Hazama, discloses returning a modified data datum, which is not in accordance with the process of the Dickens invention, wherein the date data field in the legacy database is not to be modified. The claim indicates that the symbolic representations of the date along with its "associated information," i.e., the other datum fields can be returned, e.g., after sorting or other manipulating, e.g., so that the data in the database will be, e.g., in the newly sorted order.

84. With respect to claim 25, neither Ohms, Shaughnessy, Booth nor Hazama, nor any combination of these references, teach or suggest "manipulating information in the database having the reformatted date information therein." Ohms and Booth do not manipulate reformatted symbolic representations of dates, as recited, but instead manipulate dates in, respectively, Lilian or integer date formats. Shaughnessy and Hazama do not manipulate any reformatted date information in the database.

85. The above discussion regarding the corresponding claims also applies to claims 26-30.

86. The above discussion also applies to claims 31-33.

87. With respect to claims 31-33, neither Shaughnessy, nor Ohm, nor Booth nor Hazama, nor any combination of these references, discloses or suggests the claimed invention as recited in Claim 31. At a minimum, these references separately or collectively fail to teach or suggest "reformatting the symbolic representation of each symbolic representation of a date in the database" Further, they do not teach or suggest doing the reformatting "without the addition of any new data field to the database" In addition there is no teaching or suggestion of "the reformatted representation of each date

in the database having the values C_1, C_2, \dots , in order to facilitate collectively further processing the reformatted symbolic representations ... of each of the dates."

88. Ohms and Booth, utilizing Lillian and integer date formats, respectively, do not reformat dates in the database at all, and do not even have the Y2K ambiguity problem addressed by the claimed invention. Similarly the discussion of Shaughnessy and Ohms in this regard noted above is applicable here.

89. The above discussion of the references is also applicable to claims 34-59.

90. With respect to claim 34, neither Shaughnessy, nor Ohms, nor Booth nor Hazawa, nor any combination of these references, discloses or suggests the claimed invention as recited in Claim 34. At a minimum, these references separately or collectively fail to teach or suggest "converting each of the symbolic representations of dates stored in ... the database" Further, they do not teach or suggest doing the reformatting "by windowing ... each of the respective dates as stored ... without the addition of any new data field to the database" In addition there is no teaching or suggestion of "running a program collectively on each of the converted symbolic representations of each of the respective dates"

91. With respect to claim 35, in addition to the discussion above with respect to claim 34, these references do not separately or collectively teach or suggest "opening the database prior to the step of converting" in the process as recited in claim 34.

92. Similarly with respect to claims 36 and 37, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively sorting the converted symbolic representations prior to the step of running the program" in the processes as recited in claims 34 and 35.

93. Similarly with respect to claims 38 and 39, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or

suggest "collectively manipulating the converted symbolic representations prior to the step of running the program" in the processes as recited in claims 34 and 35.

94. Similarly with respect to claims 40 and 41, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively sorting the converted symbolic representations according to a different data field contained in the database" Neither do they teach or suggest doing this "prior to the step of running the program on the converted symbolic representations" as recited in claims 40 and 41.

95. Similarly with respect to claims 42 and 43, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations according to a different data field contained in the database" Neither do they teach or suggest doing this "prior to the step of running the program on the converted symbolic representations" as recited in claims 42 and 43.

96. Similarly with respect to claims 44 and 45, in addition to the discussion above with respect to claims 34 and 35, these references do not separately or collectively teach or suggest the process as claimed in claims 34 and 35 wherein in addition "the program performs an operation which manipulates the data in a data field associated with the at least one date data field of the database according to the converted symbolic representation of the date" as recited in claims 44 and 45.

97. Similarly with respect to claims 46 and 47, in addition to the discussion above made with respect to claims 34 and 35, these references do not separately or collectively teach or suggest the process as claimed in claims 34 and 35 wherein in addition "the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates ... and repeating this step until each of the date data entries in the at least one date data field is converted" as recited in claims 46 and 47.

98. Similarly with respect to claims 48 and 49, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest "collectively sorting the converted symbolic representations prior to the step of running the program" as recited in claims 48 and 49.

99. Similarly with respect to claims 50 and 51, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations" as recited in claims 50 and 51.

100. Similarly with respect to claims 52 and 53, in addition to the discussion above with respect to claims 46 and 47, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations according to a different data field... prior to the step of running the program" as recited in claims 52 and 53.

101. Similarly with respect to claims 54 (as amended) and 55, in addition to the discussion above made with respect to claims 52 and 53, these references do not separately or collectively teach or suggest "collectively manipulating the converted symbolic representations" as recited in claims 54 and 55.

102. Similarly with respect to claims 56 - 59, in addition to the discussion above with respect to claims 52 - 55, these references do not separately or collectively teach or suggest a process "wherein the program performs an operation which manipulates the data in the date data field ... according to the converted symbolic representation of the date" as recited in claims 56 - 59.

103. The above discussion of the references applies as well to claims 60-65.

104. With respect to claim 60, neither Ohms, Shaughnessy, Booth nor Hazama, separately or collectively teaches or suggests "converting each of the symbolic

representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity," as recited in claim 60. Or at a minimum they do not also teach or suggest doing this "without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting," as recited in claim 60. Neither do they separately or collectively teach or suggest "running a program on each of the converted symbolic representations of each of the respective dates ...according to the dates represented by the converted symbolic representations," as recited in claim 60. In addition, also at a minimum, they do not separately or collectively teach or suggest doing so "separately from the date data symbolic representations of dates contained in the at least one date field," as recited in claim 60.

105. The discussion in paragraph 94 applies also to claim 61.

106. With respect to claim 62, the same discussion above regarding claim 60 also applies to claim 62 and in addition, these references do not teach or suggest the step of "converting" including "without the addition of any new data field to the database for purposes of such windowing and converting," as recited in claim 62. Neither do they separately or collectively teach or suggest "storing the converted symbolic representations separate from the at least one date field of the database," as recited in claim 62. Neither do they teach or suggest "running a program on the stored converted symbolic representations," as claimed in claim 62.

107. With respect to claim 63, the same discussion above as to claim 62 also applies to claim 63.

108. With respect to claims 64 and 65, the same discussion above as to claims 62 and 63 applies to claims 64 and 65 with the exception that the claimed step of "converting" includes "without modifying any of the symbolic representations of date in the at least one date field of the database for purposes of such windowing and converting," which is not taught or suggested by these references separately or collectively in a process as

defined by the recitations of claims 64 and 65, nor with the additional step of "storing the converted symbolic representations separate from the at least one date field in the database," as recited in claims 64 and 65.

109. The same discussion of the references above applies as well to claims 66-69.

110. With respect to claims 66 and 67, the references do not teach or suggest, separately or collectively "reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new date field to the database ...; and repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic representations," as recited in claims 66 and 67.

111. With respect to claim 68, these references do not teach or suggest, separately or collectively, "reformatting the symbolic representation of each symbolic representation of a date in at least one date field in the database, without the addition of any new date field to the database ... in order to facilitate processing of the reformatted symbolic representations ... by running a program on the reformatted symbolic representations of each of the dates" as recited in claim 68.

112. With respect to claim 69, the same discussion above with respect to claim 68 applies to claim 69 and in addition, the claim recites "sorting the reformatted symbolic representations (in the recited format) ... and running a program on the reformatted symbolic representations of each of the dates," which is not taught or suggested by these references, separately or collectively.

113. The above discussion of the references also applies to claims 70-76.

114. The same discussion of claims 61-65 apply as well to the claims 70-76 except that the claims 70 and 71 recite both "without the addition of any new data field" and

"without modifying any of the symbolic representations of dates in the at least one date field"

115. The description contained in the Specification of the Dickens patent as filed, is clear, concise and descriptive of the claimed invention and enabling of the claimed invention, especially of the claims as filed, but also including those claims added in the Reissue Application. This includes the Specification as filed with or without the Exhibit A filed with the application but not printed with the patent as issued, but it is even more clearly present with the disclosure of Exhibit A.

116. It is plain from the discussion in the Dickens Patent Specification referenced in paragraphs 6-8 above that dates stored in a database in pure numerical form, e.g., Lilian, as in Olms, or in other form, e.g., binary form, e.g., integer form as in Booth, with a unique number representing each day (or each minute or second or part thereof, depending on the granularity) in a chronological sequence of days (minutes, seconds, etc.) from a particular starting date, as in Ohms or Booth, is not even analogous art to the present invention. In those databases, the number stored includes by definition the year in four digits, and is not susceptible to the problems solved by the invention claimed in the Dickens patent as issued and/or as added in the Reissue application, among others, being that a sort on dates stored as discussed above in the cited portions of the Dickens patent will be subject to, e.g., the system being "unable to distinguish between the year 2000 and the year 1900, for example, the latter is also represented by the two digit code 00." (See Shaughnessy, Col. 1, lines 23-25).

117. Therefore, both Ohms and Booth add nothing to the disclosures of Shaughnessy and/or Hazawa related to teaching or suggesting the invention as claimed in the Dickens patent as issued and/or as added in the Reissue application. Ohms and Booth teach a utilization of windowing, but not in the context of any suggested solution to the problem that is solved by the invention of the Dickens patent. In fact they teach away, since they teach the storage of the dates in a form that is not the "symbolic representation[]" dealt with in the Dickens patent and is not subject to the system being "unable to distinguish"

dates stored in that fashion. Shaughnessy and Hazawa already teach a utilization of windowing and the added teachings of either or both of Ohms and Booth, beyond using windowing for something not related to what windowing is used for in the Dickens patent, are irrelevant to the invention of the Dickens patent.

118. One of ordinary skill in the art would readily understand the Specification of the Dickens patent, e.g., as mentioned in paragraph 9 above, to reflect the issue that caused the Y2K problem in the first place. Databases (referred to herein generally as "legacy databases") created initially during a period of time when memory was relatively very much more expensive than it is today or even has been for the last decade or so, were designed to have as small a data field for each needed item of information stored in the database as possible. For the year portions of dates stored, e.g., in a single date data field (e.g., MMDDYY) or a set of data fields (e.g., a separate MM, DD, and YY data field), as is the case in the databases relevant to the Dickens patent, this meant two character year date information with no century designation.

119. The just referenced concern is at least part of the reason, as would have been well understood by one skilled in the art, that other representations, e.g., that are not symbolic, as that term is defined in the Dickens patent, were created, e.g., Lilian as in Ohms and integer as in Booth. Ohms and Booth represent ways to initially store a complete date having day month and year to four digits, and maybe even with less bytes than would be required for a symbolic representation in the form, e.g., DD/MM/Y, not to mention DD/MM/YYYY.

120. Therefore, existing legacy databases, which have Lilian or integer date data formats are not subject to a Y2K ambiguity problem. Legacy databases in which the dates are stored in a date data format including a data field or set of data fields, including only the storage of two year date designation characters, do have, as the Dickens, Shaughnessy and Hazama patents recognize, the Y2K ambiguity problem.

121. While an existing legacy data base having the Y2K ambiguity problem may be modified to place the date data in the database in another format, e.g., containing YYYY instead of just YY, or into Lillian or integer format, or by adding to the legacy database another field, e.g., a CC, century designator field, as noted by both the Dickens patent and Shaughnessy, this can be complex, costly and maybe not effective.

122. Replacing the one date data field or set of date data fields in a legacy database of the type described by the Dickens patent to suffer the Y2K date ambiguity problem, as would have been understood by those skilled in the art at the time of the filing of the application leading to the Dickens patent, may be simply unworkable or at best costly, time consuming and subject to numerous errors that may be even more costly and expensive to be fixed, if they even can be, after such a conversion. In short the best solution available in the prior art, as suggested by both Shaughnessy and the Dickens patent, may have been, as many people did, abandon the legacy database in favor of a totally new one in which the years date data is stored unambiguously, e.g., as YYYY. If such abandonment was not feasible, then there existed also the possibility of creating an entirely new database and transferring all of the data entries in all of the fields into the newly created database, if possible without massive clerical error. Neither solution was really economically viable as suggested in Both Shaughnessy and the Dickens patent. Shaughnessy proposed a solution to this problem but his is significantly different from that of the claimed invention in the Dickens patent, and also not nearly as effective.

123. One of ordinary skill in the art at the time of the filing of the application that led to the Dickens patent would have understood the many problems in modifying a legacy database containing only room for date data in the format YY to a modified format, e.g., containing a YYYY date data format, some of which, by way of example only, might include:

(1) a database designed to be organized and contained in memory in a certain way, e.g., to conserve space or improve accessibility or both may physically (electronically) not be susceptible to expanding the YY date characterization into, e.g., YYYY; or

(2) pointers and other links, e.g., between data fields included in a string of date data information, i.e., DD, MM, YY, or other such links, e.g., between such a string entered in the database and another string that the database used, e.g., in comparing, or, e.g., for date sorting purposes, or, e.g., the initial data entry system of the database, or many other reasons that would have been understood by those skilled in the art at the time of the filing of the application leading to the Dickens patent, may be set up to look for only a specified memory location or locations which may not be sufficient to contain the new year date data in, e.g., the expanded format.

124. This is the problem addressed in the Dickens patent and its disclosure, e.g., as referenced above, e.g., in paragraphs 10 - 13, as would be done by one of ordinary skill in the art, must be construed with that fact in mind.

125. One of ordinary skill in the art would necessarily have understood from the disclosure of the Dickens patent, e.g., as referenced in paragraphs 10 - 11, with or without Exhibit A, that the steps of determining a century designator and reformatting each of the dates in the database is to be done without requiring additional or modified date data fields in the existing legacy database. The disclosure specifically says that avoiding having to do such a modification of the existing legacy database is the very reason for the claimed invention. This is also true in light of the claimed purpose being to "facilitat[e] further processing of the dates," and because of the disclosure in the Dickens patent discussed further below that "[o]nce the symbolic representations of the dates are reformatted ... the date information may be sorted"

126. It is plain from the disclosure of the Dickens patent, with or without Exhibit A, e.g., as referenced above in paragraphs 12 and 13, and would have been so understood by one of ordinary skill in the art, based upon the context of the disclosure as a whole of the Dickens patent, with or without Exhibit A, at the time of filing, that what is disclosed is the conversion, wholesale, of the dates in the database and running some program on the large number of dates so converted and that this is done without changing the underlying data fields in the legacy database from which the date data information was originally

obtained and to which it may be returned. Similarly, it is plain, and would have been so understood by one of ordinary skill in the art, that to perform the method of the Dickens patent, the converted dates must be stored somewhere outside of the existing database date data fields, otherwise sorting and other manipulations by applications programs could not be done on all of the dates taken from the database and reformatted according to the claimed invention.

127. Shaughnessy discloses the receiving from the processor into the subroutine of the one or two dates taken from the legacy database date data field(s) that Shaughnessy's subroutine operate upon, without specifically disclosing where outside the original date data field in the legacy data base this storage would occur. Similarly, those skilled in the art would have understood that all of the converted dates from the legacy database, according to the invention as claimed in the Dickens patent, ["each symbolic representation of a date in the database," and "reformatting the symbolic representation of the date [for each such date]" would require some memory and it would not be the date data fields of the legacy database. Only in this manner, as would also have been understood by those of ordinary skill in the art from the disclosure in the Dickens patent, with or without Exhibit A, could a program be run on the dates so reformatted to accomplish the subsequent claimed steps of, e.g., "sorting" and "manipulating."

128. It is clear from the prosecution history of the Dickens patent before it was originally issued, specifically as referenced above in paragraphs 14 – 17, that when applicant's counsel said that the claimed method of the patent application "should accept dates from data storage ..., " applicant's counsel was referring to data storage where the database, i.e., a legacy database, was stored with only the availability of Y₁Y₂, to discern the proper century. In addition it is clear that when applicant's counsel again uses this term in stating "[h]owever the method of the present invention need not store the converted date in data storage," that this is the same data storage where the original legacy database is stored, with its limitations, e.g., as to ability to store date data in other than a two character year date data format. Applicant's counsel immediately goes on to state "[i]nstead, the original dates in the data storage remain undisturbed." Thus the original

legacy database remains as it was with no changes. Applicant's counsel then immediately thereafter goes on to say that "[t]his aspect of the present invention thus allows conversion of dates to compensate for century designations without requiring the addition of data fields to permanently store the century designations." This also makes in clear that when applicant's counsel asserted that "the claimed invention does not require that the converted data that includes the century designations be stored in data storage," he was referring to storing the converted data back in the original date data fields of the legacy database, within the "data storage." It is evident also that the statement by applicant's counsel that "the amended set of claims does not require storage of the converted data and therefore imposes no requirement for new data fields," is referring to storage of the converted data in new data fields in the legacy database, within the "data storage." Further it is clear that the comment of applicant's counsel, that "conventional date formatting systems typically require additional data fields for storage to accommodate the century designations," means that the problem being addressed is being able to sort, manipulate and otherwise run programs on these date representations without modifying the existing fields in the database or changing that data in those fields permanently.

129. As the specification of the Dickens patent points out and as those in the art would have known at the time, the legacy database is not readily susceptible of changing the format of those date data fields for permanently modifying the date data format contained in the legacy database. Applicant's counsel's comment that "[t]hese additional data fields are necessary because conventional systems disclose a permanent reformatting of stored data," clearly refers the undesirable prior art solution of the Y2K problem by reformatting the legacy database itself and then, e.g., reformatting all of the date data and also the fact that this solution does require that new data fields be added to the legacy database.

130. Additionally, in the context of this argument, the applicant's counsel's assertion that "[t]he claimed invention, on the other hand, does not require that the reformatted data be permanently stored. Instead, the method of [the] claimed invention encompasses

embodiments in which the date information is initially reformatted and converted to have century designations, but does not require that the reformatted dates be stored,” is plainly talking about the lack of need for permanent storage within the date data fields of the legacy database. One skilled in the art would plainly understand this from the disclosure, with or without Exhibit A.

131. Even Shaughnessy, as noted above, in his method has to store one or two dates processed each time by the called subroutine in some form of data storage, even if it is a register or cache memory in the processor. Clearly the set of date data, which has been converted and reformatted, according to the claimed invention, must be stored somewhere for the additional process steps of, e.g., sorting or manipulating (or as shown in Exhibit A, sorting by model number and then sorting by date) in order for these later process steps to be performed. This would have been understood by one of ordinary skill in the art from the disclosure, especially with Exhibit A. What is not changed is the date data stored in the data storage that contains the original legacy database. Not only would this have been evident to one of ordinary skill in the art at the time of the filing of the Dickens patent, this is what applicant’s counsel argued to the Examiner:

As stated previously, the method of one embodiment of the claimed invention reads the dates from the database and temporarily reformats the dates with century designations. Data manipulation programs are then performed on these reformatted dates, such as sorting the dates. However, once the data manipulations are complete, the reformatted dates need not be stored in data storage. (Emphasis added)

132. This is the same “data storage” referenced by applicant’s counsel to be where the legacy database was stored. Applicant’s counsel continued:

[i]nstead the dates in the data storage can remain the same as they were prior to the temporary reformatting of the data by the method of the claimed invention. Thus in these embodiments, the method of the claimed invention does not require additional data fields for storage because the reformatted dates with the century

designations are only used 'on the fly' for data manipulation and are not stored in data storage.

133. It should be plain from the above referenced prosecution history that the original Examiner understood the claimed invention to be what applicant now asserts it is according to the meaning of the claims as allowed in the Dickens patent. This meaning applies as well to the claims added herein in the Reissue application. That is, the method allows the extraction from an existing legacy database with date data stored in a format, e.g., using only Y₁Y₂, that is Y2K ambiguous, temporarily converting and reformatting each of the extracted dates to a format, e.g., C₁C₂Y₁Y₂, that is not Y2K ambiguous, performing data manipulation programs on these reformatted dates, that are not stored in the original legacy database fields, but necessarily must be stored somewhere separate from or outside of the original legacy database fields, and utilizing the results of the data manipulation program, without having to have modified the original legacy database and its original fields, formats, links, etc.

134. Otherwise, the original Examiner would not have removed the rejection based on the change in the claims from "reformatting the symbolic representation of the date in the database" or "reformatting each date in the database," to, respectively, to "reformatting the symbolic representation of the date ... to facilitate further processing of the dates" and to facilitate further "reformatting each date ... to facilitate further processing of the dates," as was done in the Supplemental Response of April 2, 1998, which resulted in allowance. The original Examiner stated:

The Prior Art of Record ... does not anticipate nor suggest the set of limitations of the claims, comprising the threshold year digits as used to determine a pair of century digits to be used for computation, but without enlarging the number of date digits in of the database.

Further stated the Original Examiner in an Interview summary of April 2, 1998:

It was agreed that the summary of the invention, and the arguments of the response, were not entirely in conformity with the claims, which would be potentially allowable if the use of additional century digits did not include their storage in the database.

135. Claim 10, as noted above was amended to clarify the same conflict with the disclosure as the original Examiner recognized in the claims as originally filed, i.e., that the reformatted dates are not stored back into the database.

136. Given the interpretation of the claims as filed originally and issued as amended in the original application leading to the Dickens patent, and the claims added in the current Reissue application that clarify further the meaning of those original claims, clearly the same reasons as asserted by the original Examiner for allowance of the claims in the original application apply to claims 1-76 in the present application.

137. It is not correct, as the Examiner asserts, that Shaughnessy "teaches modifying those dates that have a two digit identifier less than some predetermined pivot date; changing the format of the date, and sorting the results." To the extent that "those dates" is intended by the Examiner to mean the recited "all of the symbolic representations of dates" and/or "each symbolic representation of dates," Shaughnessy's teaching, at best, is "modifying those dates that have a two digit identifier less than some predetermined pivot date; changing the format of the date" only with respect to one, or at most two, dates sent to a called subroutine when an application encounters a two digit date data and an instruction, e.g., to determine if that date is in the past or future, i.e. to compare it to some other single fixed date, or, e.g., to compare two dates encountered by the application program.

138. Shaughnessy does not perform the step of "sorting the results," if the Examiner means the claimed results of "reformatting" "each" or "all" reformatted symbolic representations in the data base. Shaughnessy sorts between a single fixed date and a forwarded date or between two dates forwarded from the application and returns to the application a "parameter" indicating the result of, e.g., the sorting of the two dates.

139. Hazama, similar to Shaughnessy, has a "computer system ... processing section [which] replaces the code for the tens place in the last two digits of the year AD with a

code that maintains the year order.” To do this, the two digit date code is sent by the program processor, referred to as “work area” 8 or “clear area” 8, to a module 10 and the modified date is returned to the processor “work area” or “clear area” 8. Therefore, even with the disclosure in Hazama “of the need for the pivot date to be less than any date in the database” the claimed invention is no more disclosed than in Shaughnessy.

139. It is not correct that Shaughnessy teaches or suggests the “process of converting *all* dates in the database, wherein two digit dates are converted into four digit dates as taught in Shaughnessy” (Emphasis added)

140. It also does not follow from the asserted combination of Shaughnessy and Hazama as proposed by the Examiner because “it follows that one of ordinary skill in the art of programming would know and would be adept at setting parameters to correctly process a set of data,” means that the combination of Shaughnessy and Hazama results in the claimed invention. Assuming that the Examiner means “sets of data” to be the recited “all of the symbolic representations of dates” and/or “each symbolic representation of dates” in the database, since Shaughnessy, as noted above, contains no such disclosure. Because of the way Shaughnessy is disclosed to operate, it cannot perform the claimed process, and therefore, teaches away. Shaughnessy by returning a “parameter” to the program cannot reformat each or all of the date data representations in the data base and then perform further programming “sorting” or “manipulating” on the reformatted date data, since the “parameter” returned to the program is specific to an operation, e.g., comparison, specific only to the two particular date representations being operated on by Shaughnessy for purposes of returning the parameter to the program. The “parameter” simply indicates, e.g., the one date is greater than, equal to or less than the other, and is not correlated to any other date data representation in or extracted from the database for purposes of further processing. It is, therefore, not a conversion and reformatting that “facilitates further processing of the dates” taken from the database as claimed.

141. The Examiner’s comment about Shaughnessy complemented by “logical necessity” disclosing the entire claimed invention is not correct in light of fact that Shaughnessy,

with the addition of the selection of a pivot date based on the earliest date in the data base, still does not result in each and every element of the claimed invention.

142. Shaughnessy does not “suggest[] the conversion of all dates within the database from a two digit format to a four digit format as a viable, but costly alternative for the year 2000 problem (col. 1, lines 31-46 et seq).” In the cited passage, Shaughnessy is either saying that as to, e.g., a legacy data base it is difficult and expensive to modify the format, fields, etc. for the data base to only include 4 character date representations, with which applicant is in agreement (see Col. 1, lines 35 – 41 of the Dickens Patent), or teaching away from the applicant’s proposed solution, or both, as the cited passage is not entirely clear as to what would be the objectionable thing to avoid. See also Shaughnessy’s discussion in Col. 4, lines 7-26. The fact that Shaughnessy specifically teaches a separate way than the claimed invention to solve this problem, also teaches away from the claimed invention. At best this cited portion of Shaughnessy recognizes what the problem is that both Shaughnessy and the claimed invention set out to alleviate, but Shaughnessy takes a different approach.

143. Shaughnessy does not “discloses the claimed ‘all of the symbolic representations of dates falling within a 10 decade period of time’ as a date having a cycle or a range of a 100 years (col. 18, Cycle/Range C1= THE DATE CYCLE IS 100 YEARS).” The table of the Appendix to which the Examiner refers is identified by Shaughnessy as “illustrating a sample of the *types of date formats* the present invention can support.” (Col 3, lines 43-45. The fact that a cycle for dates of a given one of may listed formats in the referenced table may be 100 years teaches nothing about the selection of a range of dates that are *in a data base* upon which the method of Shaughnessy is utilized. Indeed, a number of the ranges listed as to which Shaughnessy says “the present invention can support,” are longer than 100 years. Once again the teaching of Shaughnessy is away from the present invention, in that it does not require claimed recitation “all of the symbolic representations of dates falling within a 10 decade period of time.”

144. For this same reason, it is inappropriate hindsight analysis using only the teaching of the applicant’s disclosure to say that:

As pointed out in column 2, lines 11-14 and column 3, lines 4-8 of Patent No. 5,806,063, all dates in commercial and industrial databases span within one 100 year. Shaughnessy's system being of the commercial or industrial kind described in the cited patent, must therefore, as a practical matter, incorporate this limitation.

145. The "commercial or industrial" databases which Shaughnessy invention "can support," are specifically identified by Shaughnessy to include data bases where the data contained could include a span of over 100 years

146. Shaughnessy does not teach:

the step of 'determining a century designator C. sub.1 C. sub.2 for each symbolic representation of a date in the database, C. sub. 1 C. sub.2 having a first value if Y. sub.1 Y. sub. 2 is less than Y. sub. A Y. sub. B and having a second value if Y. sub. 1 Y. sub. 2 is equal to or greater than Y. sub. A Y. sub. B' as the comparison of the current date to the date when the system was installed with the modifications (modified system install date) to thereby determine the century value (col.5, lines 36-65 et seq).

While this portion of Shaughnessy does disclose the form of windowing that Shaughnessy proposes, using the install date as the pivot date, in the context of the remainder of the disclosure of Shaughnessy this is not disclosed to be done for "each symbolic representation of a date in the database," in preparation for and facilitation of further processing of the reformatted symbolic representations. As noted above Shaughnessy does windowing and reformatting for one or two date representations at a time in the called subroutine.

147. The same can be said for the cited portion of Shaughnessy cited to disclose:

the comparison of the YYMMDD portion of the date to the corresponding date portion at the end of the 100 year cycle to thereby determine the century value (col.7, lines 7-15 et seq).

148. Shaughnessy also does not disclose:

the step of 'reformatting the symbolic representation of the date with the values C. sub. 1 C. sub.2, Y. sub. 1 Y. sub.2, M. sub. 1 M. sub. 2 , and D. sub. 1 D. sub. 2 to

facilitate further processing of the dates' by appending the determined century value before the YYMMDD date in order to yield a CCYYMMDD date format (col.5, lines 46-51; col.6, lines 57-65 et seq) ...

The "reformatting the symbolic representation of the date" must be read in the context of the earlier claim recitations that define the context of this process limitation to mean performing reformatting on "each" or "all" date data representations that have previously been the subject of the claimed form of windowing prior to this reformatting step.

Further the claimed reformatting is to "facilitate further processing of the dates." As noted above, Shaughnessy reformats at most two pieces of date data information from the data base at a time and returns a parameter that gives a result of processing done in the called up subroutine of Shaughnessy, but does not "facilitate further processing of the dates."

149. Shaughnessy does not disclose:

"returning one date field with the converted date to the subroutine and a means for returning a parameter to the application program for use in further operations (col.1, lines 47-54 et seq):

The cited portion of Shaughnessy, which appears to be in Col. 2 as opposed to Col. 1, refers to "passing at least one date field to the subroutine [and] a means for *returning a parameter* to the application" The "parameter," is not a reformatted date or dates, and is "for use by the application program in further operation." (Col. 2, lines 53-54, Emphasis added) An example of this is "[I]f the result received from the subroutine [the parameter] indicates that the date the next payment is due is greater than today's date [the program can go on to] indicate that the account is OK." (Col 4, lines 59-61) Shaughnessy also notes as an alternative to the above, the Shaughnessy process may "pass[] at least one date field which is representative of at least two dates to the subroutine, determining which if the two dates corresponds to the date field operation according to a predetermined criteria , performing the date operation on the date field, and *returning the parameter* to the application program" (Col. 2, lines 59 – 64, Emphasis added).

150. Contrary to the examiner's assertion at the time of the filing of the Dickens Patent, it is not correct that:

The ordinary skilled artisan having read Shaughnessy would immediately see the need to determine which 100 year span to use. This determination would have led the ordinary skilled artisan to the Hazama reference, which teaches the pivot date being smaller than the smallest two digit date in the database having all the dates within a 100 year period as a solution to restrict the selection of Shaughnessy's window and thereby forcing all dates already stored in the database to fall in the 20th century.

Shaughnessy teaches a very specific way of selecting a one hundred year window, and it is not based on the earliest date in the data base. In this regard Shaughnessy actually teaches away. Further, the import of the latter portion of the Examiner's above quoted view is not understood. The statement regarding "as a solution to restrict the selection of Shaughnessy's window and thereby forcing all dates already stored in the database to fall within the 20th century." If the Examiner mean that this is what Shaughnessy would teach one of ordinary skill or that the combination of Shaughnessy and Hazama would teach one of ordinary skill, then all dates falling in the 20th is a situation in which there is no Y2K problem to solve, so that either Shaughnessy or the combination of Shaughnessy and Hazama also teach away. Is this the Examiner's intent?

151. In regard to the rejection of claim 9, the cited portion of Shaughnessy, actually including also Col. 5, lines 10 – Col. 6, line 35 refers to the setting by the subroutine of the "current date (box 14), the end of the hundred year cycle (box 16) and the two possible century values (box 18)" for utilization inside the subroutine and has nothing to do with the recited "storing the symbolic representation of dates and their associated information back into the database after the step of reformatting" from claim 9.

152. As to the rejection of claim 9 Shaughnessy also does not disclose "storing the symbolic representations of dates and their associated information back into the database," i.e., after the step of "facilitating the further processing," and after such further processing, e.g., date sorting, the dates and information in Shaughnessy may not be reorganized in the database according, e.g., to the results of the sorting. Further

Shaughnessy does not teach doing so without modifying the symbolic representations of dates in the database itself.

153. Booth is non-analogous art and actually teaches away from the present invention as claimed. Booth and the Clipper system described therein use integer dating which does not suffer from the problems sought to be solved by the claimed invention, i.e., there is no Y2K date ambiguity that needs to be addressed in the processing of date data stored in a database according to the Clipper system. Booth does disclose windowing and using a ten decade window, but it is not in the context of the claimed invention. For example, it is not for the purpose of "facilitating further processing of the dates [in the database]."

Booth's use of windowing is also not disclosed to be "reformatting the symbolic representation of the date [for each/all representations of dates stored in the database]." In addition Booth does not teach "sorting the symbolic representations of the dates" in a CCYYMMDD or like format, since dates in Booth are sorted by comparison of the integer value that computes to the appropriate date, including its four character year value.

154. Modifying Shaughnessy or the combination of Shaughnessy and Hazama with Booth, which teaches storing and manipulating (operating programs on) date data that is in integer form, would render Shaughnessy and/or the combination of Shaughnessy and Hazama inoperative for their intended purpose(s). The intended purpose for Shaughnessy and Hazama is to correct the problem of Y2K ambiguity for date data stored in a database in a form that gives rise to the ambiguity, and Booth (as does Ohms) stores date data in a form that has no Y2K ambiguity. In the same way, the proposed combination would change the principle of operation of Shaughnessy and/or the combination of Shaughnessy and Hazama.

155. Contrary to the Examiner's assertion, and as indicated by the above discussion of Shaughnessy, Shaughnessy does not disclose "reformatting ... in order to facilitate collectively further processing the reformatted symbolic representations of each of the

symbolic representations of each of the dates." For this reason, the impropriety of the Examiner's rejection, as discussed above, is further supported.

156. Booth clearly and unequivocally notes that the dates stored in the database being manipulated by Clipper 5 are stored in integer format with a granularity of date days. As Booth notes at p. 939, "Dates are stored internally in such a way that math operations can be performed on dates to derive other dates. Adding an integer to date will result in a future date. Subtracting two dates will result in the number of days between the two."

See also Booth at p. 99. Regardless of what Booth may say about date data entry, date display, or the like in the portions of Booth cited by the Examiner, the fact remains that the database of Booth does not use symbolic representations of dates in the Gregorian format, and does not have the Y2K ambiguity problem, since each date as stored is

complete with information that indicates it YYYY characters in Gregorian format.

Booth's disclosure of windowing in certain contexts, is, therefore, non-analogous art, teaches away from applicant's proposed solution to the Y2K date ambiguity problem, in the same way Ohms does. Further whatever sorting Booth proposes it is not of dates reformatted from a YY date data field representation into a YYYY format for purposes of being sorted in that format. Booth sorts in integer format simply by comparing the two integers with each other and the information contained in the integer itself is not Y2K ambiguous.

157. Ohms does not disclose:

the claimed 'method of processing symbolic representations of dates stored in a database' by presenting a computer implemented method for processing date[s] outside the twentieth century (see title, p 244 et seq).

The symbolic representations of dates in Ohms' database are in the form of a number representing a unique Lilian date and fully includes all year information such that the Y2K ambiguity problem addressed by the present invention is not even present vis-à-vis the date data stored in Ohm's database. Each Lilian date so stored includes (is convertible to) a representation of a full four character year, without Y2K ambiguity, just as is the case with the integer dates employed by Clipper 5 as described in Booth. In

addition Ohms does not call for the dates actually stored in the database to be within a ten decade window. In fact they can be anywhere within the span of days capable of being represented by seven digits (the specific embodiment disclosed, but it could be even more) of days, i.e., over 2000 years.

158. Ohms does not disclose:

'selecting a 10-decade window with a Y. sub. A Y. sub. B value for the first decade of the window, Y. sub. A Y. sub. B being no later than the earliest Y. sub. 1 Y. sub. 2 year designator in the database,' ...

Ohms does disclose selecting a ten decade window for the windowing of date data being entered, but say nothing at all about selecting this ten decade window based upon any span of dates actually stored in the database.

159. Ohms is non-analogous art and actually teaches away from the present invention as claimed. Lilian dating does not suffer from the problems sought to be solved by the claimed invention, i.e., there is no Y2K date ambiguity that needs to be address in the processing of date data as stored by the Ohms system. While Ohms does disclose windowing and using a ten decade window, it is not in the context of the claimed invention. For example it is not for the purpose of "facilitating further processing of the dates [in the database]." Ohm's use of windowing is also not disclosed to be "reformatting the symbolic representation of the date [for each/all representations of dates stored in the database]." In addition Ohms does not teach "sorting the symbolic representations of the dates" in a CCYYMMDD or like format, since dates in Ohms are sorted by comparison of the integer value that computes to the appropriate date, with the inclusion in the integer value of its four character year value. Indeed, modifying Hazawa, which teaches storing and manipulating (operating programs on) date data that is in, e.g., MMDDYY form, would render Hazawa inoperative for its intended purpose(s). The intended purpose for Hazawa is to correct the problem of Y2K ambiguity for date data stored in a database in a form that gives rise to the ambiguity and Ohms stores date data in a form that is not Y2K ambiguous. In the same way, the proposed combination of Ohms and Hazama would change the principle of operation of Hazawa.

160. There is no *prima facie* obviousness because there is no motivation to combine non-analogous art, especially where Ohms teaches away from the claimed invention, at least to the extent it teaches addressing the Y2K problem by storing date data in a form that is not susceptible to the Y2k ambiguity problem and does not need to be modified in any way to be able to be fully sorted, manipulated or otherwise processed without concern for any possible confusion between the Lilian value that represents all of the days throughout, e.g., the year 2002, including the fact that they are in the year 2002 and the totally unique and fully determinative integer value that represents each of the days in the year 1902, including the fact that each such day is within the year 1902, or, for that matter, 3002, 4002 and so on. The specific embodiment of Ohms using only seven characters to count the dates would have to be expanded to cover a span of more than 2000 years, however, and the starting date of the first day, e.g., January 1, 1900, would determine, along with the total number count of days, the end of the span that can be covered.

161. The Examiner is misreading the claims. As recited, e.g., in claim 33, the process step calls for:

reformatting the symbolic representation of each symbolic representation of a date in the database, without changing any of the symbolic representations of a date in the database during the reformatting step, ...

or in claim 60 the process step calls for:

by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting; ...

The "symbolic representations of dates in the at least one field of the database" remain unchanged, as discussed in further detail herein with regard to the enabling issue, as the

Examiner in the original application noted and as was the subject of an amendment of the claims therein to clarify that point.

162. As to written description, the Specification is reasonably clear in indicating that the applicant as of the filing date of the application leading to the Dickens patent was in possession of the invention, even if new terminology is used in the claims. The claimed sort based upon the reformatted CCYY format is a broader genus. As indicated in the specification and as would have been well known in the art at the time of the filing of the Dickens patent, data may be stored in databases in other than YYMMDD and in which the Y2K ambiguity problem still exists, e.g., YYMMMDD, where the MMM is a three letter designation of the month. For such date data formats, the present invention, as would be understood by those skilled in the art from the disclosure of the Dickens patent, with or without Exhibit A, is just as useful, along with the reformatting of the YY to CCYY. The claim, therefore, is a broader genus, which would cover the originally recited CCYYMMDD as well as, e.g., CCYYMMMDD.

163. The Examiner has taken the position that:

Claims 33, 60-61, 64-65 and 70 call for reformatting to occur 'without changing' or 'without modifying' the symbolic date representations during the reformatting when the specification merely indicates that the YYMMDD date format is reformatted to appear in the form CCYYMMDD (col.3, lines 41-43). It is apparent that the original specification is devoid of any disclosure of how such reformatting is performed 'without changing' or 'without modifying' the symbolic date representation. In fact, the suggestion of reformatting without changing representation is on its face a contradiction, for the reformat is to change representation. Therefore, the claimed limitation reformatting to occur 'without changing' or 'without modifying' is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

164. There is quite an adequate disclosure in the original specification including the Certificate of Correction, from both a written description and an enabling perspective.

The addition of the Exhibit A further supports the claim language. The “without modifying” and/or “without changing” recitations refer to the fact that the original database date entry as contained in, e.g., a legacy database itself, is what is not modified. Clearly modification occurs according to the claims of the what is taken from or extracted from the date data field in, e.g., a legacy database, but this modification/reformatting according to the claims is done without also modifying/reformatting the originally stored date data as it is in the database itself and remains so after the converting and reformatting according to the claimed invention. This is adequately described in the written description and fully enabled.

165. The Examiner has taken the position that:

Claims 16-30, 32, 34-67, 69-71, 75 and 76 call for processing relative to a ‘pivot date’ or ‘pivot year’ when such terms are nowhere defined or even mentioned in the original specification. Therefore, the claimed limitation ‘pivot date’ or ‘pivot year’ is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

166. This term is well known in the art. By way of example, United States Patent No. 6,317,746, entitled SOFTWARE DATE AND TIME SERVICES, issued to Franklin, Jr., et al. on November 13, 2001, and United States Patent No. 6,003,028, entitled IMPLEMENTING EXTENDED NUMERIC RANGE WITHIN A TWO-DIGIT SOFTWARE REPRESENTATION, issued to Koenig on December 14, 1999 use the term in connection with windowing techniques utilizing, e.g., a ten decade window. The Examiner has himself used the term throughout the prior and present Office Actions in rejecting claims with and without the term “pivot year” in the claim language. The term simply means, as the Examiner himself has used it, the starting year for the window.

167. The Examiner has also taken the position that:

Claims 20-21, 62-65 and 71 call for ‘reformatting’ or ‘storing’ ‘separately’ from the symbolic representations in the database or from the database when the original specification merely suggests reformatting or sorting the date. However, the original specification does not disclose such ‘separate’ reformatting or storing.

Therefore, the claimed limitation of 'separate storing' or 'separate reformatting' is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

168. As discussed above with respect to claims 33, 60-61, 64-65 and 70 regarding the 'without changing' or 'without modifying' recitations, the Specification as originally filed along with the Certificate of Correction, adequately discloses and enables the recitations regarding "separate reformatting" and "separate storing." The addition of Exhibit A further supports such recitations.

169. The Examiner has taken the position that:

Claims 16-25, 31-33, 66-67 and 72 call for 'collectively further processing' when the specification makes no mention of such 'collective' further processing. Similarly, claims 36-43 call for 'collectively sorting' or 'collectively manipulating' when the original specification merely suggests sorting and manipulating. However, it does not mention such 'collectively' sorting or manipulating. Similarly, claims 34-61, 63 and 65 call for the step of 'running a program collectively' when the original specification, perhaps, only implicitly discloses the 'running of the program'. However, such 'collective' running of the program, is not disclosed. Therefore, the claimed limitations of 'collective processing', 'collective sorting', 'collective manipulating' or 'collective running' are new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

170. The original disclosure and claims disclose a process whereby "each" or "all" of the dates stored in a database, e.g., a legacy database, wherein the stored format includes only two year date characters, are reformatted to contain four year date characters, followed by a process of, e.g., sorting or manipulating, based on all of the reformatted dates. The Exhibit A disclosure further supports this interpretation of the claims. The term "collectively" is not used in the original disclosure. However the term serves to define over the art, e.g., Shaughnessy, where, e.g., one date from the database and one

fixed date, or two dates from the database, are compared to each other, in the called subroutine, as opposed to all of the data from the database being manipulated, e.g., date sorted "collectively."

171. The Examiner has taken the position that:

F. Claims 36-37, 40-41, 48-49, 51-59, and 69 call for the running of a program after a sorting operation has been performed. However, the original specification does not provide a written description of such running of a program subsequent the step of sorting. Similarly, claims 38, 39, 42-43 call for data manipulation before running of the program. No written description is provided for such data manipulation before running the program in the original specification. Therefore, such limitations are new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

172. As noted in the Specification of the Dickens patent:

Once the symbolic representations of the dates are reformatted according to the procedure set forth above, the date information may be sorted, numeral 38, or manipulated, numeral 40, together with the entries associated with the dates. Such manipulation may include handling of the data associated with the dates, storing the dates and associated information back in the data base, or other processes.

173. In addition, at least Exhibit A shows a sort program run before another program, e.g., a print program.

174. The Examiner has taken the position that:

Claims 46-59 call for "repeating the step of converting at least a substantial portion" of the specified data. The original specification does not disclose the conversion of such substantial portion. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

175. A person skilled in the art at the time of the filing of the application leading to the Dickens patent would have understood from the disclosure of the Dickens patent, with or without Exhibit A, that the storage of databases, particularly of extensive nature, may be contained in memory in variously segmented ways, e.g., on pages of extended memory, or organized by, e.g., data entry number. In addition it would have been understood that the process of the present invention, depending upon the particular application program being utilized and the particular kind of "manipulation" being done, may effectively run on a substantially portion of the database containing a substantial portion of all of the, e.g., date data fields, but not necessarily all of them. Applicant's claims are not limited to only those instances where the recitation "each" or "all" as distinguishing over prior art, e.g., Shaughnessy, would require that each and every date data field is reformatted. In addition those skilled in the art would have appreciated that the database may contain several different date data fields associated with each particular data entry in the database and the sorting or other manipulation may only be concerned with one such field, and the conversion, therefore, only necessary in that instance and only as to that field. The program listing in Exhibit A is exemplary. For example, the "tools" database may have other date data fields besides "last_inv.dat", e.g., purchase.dat or last_maintenance.dat. The claims as originally filed would cover that situation and the added claims rejected above by the Examiner simply further clarify this fact.

176. The Examiner has taken the position that:

Claims 34-65 and 70-71 call for 'converting' symbolic representations 'by windowing the symbolic representation' when the specification merely discloses the selection of a 10 decade window. The verb 'windowing' appears nowhere in the specification, and its meaning is unclear. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

177. The disclosure of the Dickens patent, even without Exhibit A, and also with Exhibit A, fully describes the claim recitation "by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against

a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database" Windowing is a well known and recognized term in the art, and as noted above the pivot year, meaning the earliest date in the window, is also a well known and recognized term of art. Even if the disclosure of the Dickens patent, with or without Exhibit A, does not specifically use the term "windowing" or the term "pivot year," one skilled in the art at the time of the filing of the Dickens patent would have understood the disclosure to contemplate and fully describe and enable the claim limitation.

178. The Examiner has taken the position that:

Claims 35, 37, 39, 41, 43, 45, 49, 51, 53, 55, 57 and 59 call for the step of 'opening the database prior to the step of converting' when the original specification makes no mention of opening the database. Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

179. Applicant asserts that the step of opening the database is at least inherent in the disclosure of the Dickens patent. One skilled in the art would have understood that to get at the date data field stored in the database in the Y2K ambiguous format in order to reformat it to not be Y2K ambiguous, the database would initially have to be opened up for such access. Exhibit A, in addition, specifically includes a program step opening the "tools" database.

180. The Examiner has taken the position that:

Claims 34-65, 70 and 71 call for the avoidance of an 'ambiguity' by reformatting or converting date representation. The original specification merely suggests that dates containing only two digit year representation, and without reformatting, may sort improperly. It does not mention or discuss any such claimed ambiguity.

Therefore, such limitation is new matter because this subject matter was given neither a written description nor enabling description in the original disclosure.

181. Applicant submits that there is a full description of and enablement of the claims recitation of a process for working on a "database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries," and for the subsequent recitation of "converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity" The specification says that the problem being addressed is:

However, with the turn of the century at Jan. 1, 2000, the representation and utilization of dates becomes more complex. Using the numerical form above, Dec. 15, 2000 is represented as 12/15/00. If a numerical sort is performed on 12/15/93 and 12/15/00, the later date 12/15/00 sorts as the first-occurring date, an incorrect result.

Sets of dates spanning the turn of the century and associated with past, current, and future activities are now stored in many databases. When stored in the conventional formats discussed above, those dates will not readily be used and numerically sorted in chronological order.

In other words, because of the utilization of only two date data characters, the century of the date is ambiguous, and the process of the present invention will remove that ambiguity. That is, the date data format that is ambiguous in two characters is converted to one in four characters that is not ambiguous in a disclosed embodiment of the invention.

182. The Examiner has taken the position that:

Claims 1-15, 31, 33, 68, 72-74 call for the selection of a 'YAYB value for the first decade' of a window. There is no known meaning for the 'value of a decade' and the original specification is devoid of any description of what the 'value of a decade' is. Because this subject matter was in the original disclosure, such limitation is not new matter. However, it is rejected under the second paragraph of 35 USC 112 because the meaning of the claim phraseology is so devoid as to be wholly indefinite.

183. The specification and claims are perfectly clear on the meaning of the value of $Y_A Y_B$. It is the "first year of the 10-decade window." (Col 3, line 13). The full recitation of the claim to which the Examiner refers recites "selecting a 10-decade window with a $Y_A Y_B$ value for the first decade of the window" This is precisely the same as saying that the "value" of $Y_A Y_B$ is the two digit year value of the first year in the 10-decade window. Contrary to the Examiner's suggestion, the claim does not call for setting the "value for a decade," even if in the context of the Specification and claim language there would be any doubt that "the value of a decade" is ten years. The claim clearly calls for a " $Y_A Y_B$ value" which is "for the first decade of the [10 decade] window" It is also the same value as for the first year in the 10-decade window.

184. The Examiner has taken the position that:

1. Applicant argues that Shaughnessy does not teach or suggest "*the step of selecting a 10-decade window $Y_A Y_B$ no later than the earliest $Y_1 Y_2$ year designator in the database.*" Applicant alleges that Shaughnessy only discloses the selection of a 10 decade window utilizing the date the system was installed. In response, the Examiner respectfully submits that Shaughnessy teaches the selection of a 10-decade window in figure 4 and the necessity of such a window starting with a date no later than the earliest year in the database is taught in Hazama.

185. Shaughnessy does not disclose the claimed "step of selecting" Shaughnessy in the Specification and in the discussion specifically of Figure 4, and in Figure 4 itself, does not disclose " $Y_A Y_B$ no later than the earliest $Y_1 Y_2$ year designator in the database." Specifically, depending upon the determination made in the block 36 of Figure 4 of Shaughnessy, the start date is set to either the "install date" or the "current date," and then the "100 year cycle" is determined by a selected number of years from the start date of so-called "future dating." This is explained by Shaughnessy as follows:

FIG. 4 illustrates the steps performed to determine the end of the 100 year cycle. When a system is modified according to the principles of the present invention, several parameters may be specified. The parameters may include the number of

years of future dating required (default is 10), the type 2 format, CCYYMMDD, for the modified system install date (default is 19931231), and whether the end of the 100 year cycle is to be updated daily (0 indicates no update of the cycle, 1 indicates daily update of the cycle; default value is 1). The first step in determining the *end of the 100 year cycle* is therefore determining the update frequency for the cycle (box 36). If the cycle is to be updated daily, then the starting date is set to the current date (box 38), as determined above. Therefore, for this example the starting date would be 20000101 if the cycle is to be updated daily. Next, the *end of the 100 year cycle* is determined by adding the number of years of future dating required to the starting date (box 40).

Shaughnessy, at best, describes the selection of a desired end of the 100 year cycle, which indeed may be updated daily. Regard for the earliest date in the database is not considered. Both the install date and the current date may result in a 100-year window that will incorrectly translate dates in the database into the 21st century by Shaughnessy's disclosed method, or will at some point in time, if updated daily, begin to do so. Shaughnessy ignores or, at best, teaches away from the claimed process step of "selecting a 10-decade window YaYb no later than the earliest YI Y2 year designator in the database."

186. The Examiner has further taken the position that:

2. Applicant argues that neither Shaughnessy nor Hazama teaches or suggests *"the step of determining a century designator CI C2 for each symbolic representation of a date in the database, CI C2 having"* Applicant alleges that the teaching of Shaughnessy or Hazama is to determine a century designator for at most two date representations being processed in a called subroutine at a given time. In response to the preceding argument, the Examiner respectfully submits that even under the allegation above, the Shaughnessy-Hazama combination would still disclose the claimed limitation as long as the references teach or suggest the determination of a century designator for each date in the database. As discussed in the office action, Shaughnessy determines a century designator for converting a current date from a six-digit to an eight digit format before the converted date is returned for

use in a particular application. Shaughnessy determines the century value (19 or 20) by comparing the current date to the corresponding date portion when the system was installed with the modifications. Further, Shaughnessy suggests that the above approach can be used to determine a century designator for converting each six digit date in a database to corresponding eight digit dates. However, Shaughnessy refrains from such an approach, though capable of curing the year 2000 problem, on economic instead of technical grounds, since it might not be cost efficient. To the extent applicant is arguing that Shaughnessy fails to extrapolate the operation of date conversion from a single instance to an entire database, it is first noticed that one of ordinary skill in the art extrapolates single operations to batch processing of an entire database as a matter of automation efficiency, it is secondly pointed out that Shaughnessy teaches that its date conversion processing would be inserted for every occurrence of date processing, i.e. across the entire input gamut, col. 4 lines 27 to 33, and it thirdly noticed that Shaughnessy even provides a specific example of checking the due dates in a database for being overdue col. 4 lines 38 to 43. Further, Hazama complements Shaughnessy by disclosing the use of a pivot date that is smaller than any other date in the database to compare each date in the database with the pivot date to thereby determine whether each two digit year in the database should be preceded by 19 or 20. Therefore, the Shaughnessy -Hazama combination does teach the above limitation, as claimed.

187. The Examiner's combination of Shaughnessy-Hazama does not "teach or suggest the determination of a century designator for each date in the database." In the first place, neither reference expressly teaches performing the claimed process step on "each" date representation in the database. They teach calling up a subroutine if an application program encounters an ambiguous date representation. The fact that eventually the application program may encounter all of the dates, does not mean that the combination of the references teach performing in the specific sequence of process steps in the claims, first the reformatting of each of the dates and then sorting , manipulating, running a program, or the like, on them with respect to all of the date representations amounting to

"each of the date representation" as recited in the claims. In addition, even if the processes disclosed by Shaughnessy or Hazama or the combination of these references eventually could or might get to all date representations does not amount to a disclosure of the sequence of steps specifically recited in the claims regarding the "processing of symbolic representations of dates stored in a database," as to determining a century designator for each symbolic representation of a date in the database," followed by the step of "reformatting the symbolic representation of the [each such] date ... to facilitate further processing of the dates." While the claim does not recite "each such" this is implicit from the rest of the claim language and from the disclosure.⁶

188. The Examiner is incorrect to assert that:

Shaughnessy determines a century designator for converting a current date from a six-digit to an eight-digit format before the converted date is returned for use in a particular application.

Shaughnessy returns a "parameter," which itself is not information from which the reformatting of the date data used to generate the "parameter" can be determined.

189. The Examiner is also not exactly correct in framing applicant's assertion with regard to what Shaughnessy suggests as to whether:

the above approach can be used to determine a century designator for converting each six digit date in a database to corresponding eight digit dates. However, Shaughnessy refrains from such an approach, though capable of curing the year

⁶ Furthermore, as noted above, those skilled in the art would have understood from the disclosure of the Dickens patent, with or without Appendix A, that "each" while it is distinguished from the processes of Shaughnessy and Hazama does not necessarily mean each and every possible date data stored in the database. While that is most often the case in the operation of the claimed process, e.g., if the database is organized using, e.g., pages or sections of memory, and in the context of a given application program, "each" may mean each on a given page or in a given section and the application program may be able to deal with the reformatted group of "each of the date data representations," on a page by page or section by section basis, or may require reformatting of every one of the dates in every date data field having only two character date data information before continuing on to do the sorting of manipulating or otherwise run a program, after the process of the present invention has reformatted "each" of the date representations to facilitate further processing. Nevertheless, whether done on a page by page, sections by section, etc. basis or done throughout the entire database before "further processing," this method is distinguished from either Shaughnessy or Hazama or the combination of these references.

2000 problem, on economic instead of technical grounds, since it might not be cost efficient.

Shaughnessy's discussion comports with applicants, i.e., that to modify the existing legacy database is highly impractical, if not impossible. That is, as noted above, and in applicant's Specification, with or without Exhibit A, one does not want to change the legacy data base itself, e.g., its organization, data formats and sizes, etc. within, e.g., the date data fields, and/or with respects to, e.g., links, etc., employed in the data base, which might also have to be changed if a date data field is modified, e.g., enlarged to an entirely new date data field to accommodate, e.g., the expanded year date data containing the century designator. Shaughnessy proposes a solution, and Hazama proposes a solution, but they are not the solution of the claimed invention.

190. The Examiner's suggestion of "extrapolation," of Shaughnessy's approach into the claimed invention is hindsight reconstruction of the process disclosed in Shaughnessy. It is incorrect also for the Examiner to assert that this "extrapolation," amounts to simply multiplying the process steps proposed by Shaughnessy to cover the entire database:

To the extent applicant is arguing that Shaughnessy fails to extrapolate the operation of date conversion from a single instance to an entire database, it is first noticed that one of ordinary skill in the art extrapolates single operations to batch processing of an entire database as a matter of automation efficiency ...

To do so does not result in the claimed invention, since, at least, Shaughnessy does two by two comparisons (either of a date from the database and a fixed date or two dates from the database) and returns a "parameter" indicative of the results of that single two by two comparison. Even if multiplied over and over to go through the entire data base, it is still not the claimed process.

191. The Examiner is also incorrect to assert that:

Shaughnessy teaches that its date conversion processing would be inserted for every occurrence of date processing, i.e. across the entire input gamut, col. 4 lines 27 to 33 ...,

or, even if correct, this is not the claimed invention, because Shaughnessy's "data conversion processing," as noted above, is not according to the claimed invention.

192. The specific portion of Shaughnessy referenced (and a continuing portion) discuss one embodiment of a process according to Shaughnessy's method in which:

In accordance with the present invention, the current date operation routines nested in the body of the application program would be replaced with a call to one of a plurality of subroutines stored externally from the existing application program, as opposed to the date operation routine being reprogrammed to perform the date operation in a new format. The subroutines will be able to accommodate the date format currently employed by the application program, thus making it unnecessary to convert all of the date fields in files containing data used by the application program over to the new date format. For example, if an application program for a bank performed a date comparison to determine when loan payments were overdue, the point in the source code which previously performed the comparison may have program statements which performed the following functions:

1. Compare date next payment is due to today's date;
2. If the date next payment is due is greater than today's date, indicate that the account is OK.

If the system which ran the above application program were modified in accordance with the principles of the present invention, then the program statements which performed the above functions would be modified to include program statements which did the following:

1. Call the subroutine which performs the date comparison passing today's date, the date next payment is due, and a three byte parameter, the first byte of which identifies the format of today's date, the second byte of which identifies the

format of the date next payment is due, and the third byte of which is left available for a return code indicative of a result of the comparison;

2. If the result received from the subroutine [indicated by the returned parameter] indicates that the date next payment is due is greater than today's date, indicate that the account is OK.

193. This is simply a very different process than the one recited in the claims, as noted above, even if performed over and over again to compare, e.g., sets of due dates to the current date as stored in the database, and as provided to the subroutine, until all of the entries in the database are examined. Therefore, while Shaughnessy may "provide[] a specific example of checking the due dates in a database for being overdue col. 4 lines 38 to:43," Shaughnessy does so by other than the claimed invention.

194. The Examiner has also taken the position that:

3. Applicant argues that neither Shaughnessy nor Hazama teaches or suggests the step of '*reformatting the symbolic representation of the date with the values: C1C2, Y1Y2, M1M2, and D1D2 to facilitate further processing of the dates.*'

Applicant alleges that the teaching of Shaughnessy or Hazama is to reformat two dates at a time in the called [sic] result of the processing of the two reformatted date data entries, and not to facilitate further processing of the dates by reformatting the symbolic representations of the dates (claim 4). In response to the preceding argument, the examiner respectfully submits that the Shaughnessy-Hazama combination does disclose the reformatting of the dates in the C1C2Y1Y2M1M2D1D2 format to facilitate the further processing of these dates. Shaughnessy's conversion of the current date of an operating system from a six digit format to an eight digit format each time said date is going to be used in application. Such reformatted dates are further utilized by returning one date field with the converted date to the subroutine and by returning a parameter to the application program for use in further operations. As explained above, Shaughnessy suggests that such approach can be extended to reformat dates

already stored in database such that they can be used for further processing.

Therefore, the Shaughnessy/Hazama combination does teach the above limitation, as claimed.

195. The above discussion of Shaughnessy is reiterated here, including, e.g., the discussion of the claimed invention dealing with “all” and “each” in the claimed process sequence resulting in the “facilitat[ion] of the further processing of the dates.” In addition Shaughnessy does not:

return[] one date field with the converted date to the subroutine and by returning a parameter to the application program for use in further operations.

and also does not:

suggest[] that such approach can be extended to reformat dates already stored in

database such that they can be used for further processing,

or, at least does not suggest doing so in the context of “facilitating the further processing of [each of] the dates ...” Shaughnessy sends a date field to the subroutine and returns a

parameter that is lacking in any indication of the date itself, whether as originally stored

in the database or as converted by Shaughnessy within the subroutine for purposes of the

functioning of the subroutine to create and return this parameter.

196. The Examiner has taken the position that:

5. Applicant argues that neither Shaughnessy or Hazama teaches or suggests the step of ‘*reformatting each symbolic representation of a date in a format CIC2YJ Y2M1M2D1D2 (claim 5), nor sorting the symbolic representations of dates in numerical order sort (claim 6), nor storing the symbolic representation of dates and their associated information back into the database (claim 9); nor*

manipulating information in the database having reformatted date information therein (claim 10).’ In response to the preceding argument, the examiner

respectfully submits that with regards to claim 5, Shaughnessy discloses the limitations as discussed above in paragraph 3 of the remarks. Regarding claim 6,

Shaughnessy, Hazama and Booth disclose the cited limitation, see discussion

above in paragraph 4 of remarks. Regarding the limitation of claim 9,

Shaughnessy discloses the step of storing the symbolic representation of dates and their associated information back into the database, as discussed in the office

action. Shaughnessy teaches the storing in the database of current date after it has been converted from the six digit format to the eight digit format. Further, Shaughnessy suggests that such an approach can be extended to dates in a database. Consequently, Shaughnessy discloses the claimed limitation of claim 9. Regarding claim 10, Shaughnessy and Hazama disclose the cited limitations as discussed above in paragraphs 3 and 4 of the remarks.

197. In addition to the above discussion, Shaughnessy does not disclose:

the step of storing the symbolic representation of dates and their associated information back into the database, as discussed in the office action. Shaughnessy teaches the storing in the database of current date after it has been converted from the six digit format to the eight digit format.

Shaughnessy suggests that modifying the date data field in a legacy database and storing modified dates from an existing legacy database in such a modified date data field is possible but not practical. Such a modification is an undesirable alternative to the present invention as well, as noted above. The solution of the present invention is significantly different from the one suggested in Shaughnessy.

198. The Examiner has taken the position that:

14. Applicant argues that Booth does not teach or suggest the step of '*selecting YaYb such that Yb is 0 (zero)*,' as recited in claim 8. Applicant alleges that even though SET EPOCH can and does use pivot years ending in 0, it is not a process according to the claimed invention. In response to the preceding arguments, the Examiner respectfully submits that Booth does disclose Yb to be zero by selecting YaYb to be equal to 90. See page 942. It is noted that Applicant's arguments that Booth's teaching is not a process according to the claimed inventions fails to comply with 37 CFR 1.111 (b) because they amount to a general allegation that the claim define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant simply alleges that the cited limitations are not taught by Shaughnessy without actually explaining how these limitations are distinguishable from the corresponding portions in Booth on which the Examiner relied to establish the

prima facie case. See page ... of the office action. Consequently, Applicant has failed to successfully rebut the rejection of claim 8. Generally, Applicant bears the burden of explaining why the evidence on which the Examiner relies is insufficient to establish a prima facie case or demonstrating that Applicant has provided evidence which rebuts the prima facie case. See *In re Rouffet*, 149 F.3d 1350, 1355 47 USPQ2d 1453, 1455 (Fed. Cir. 1998). Furthermore, Shaughnessy's process would select a Yb value of 0 for one year out of every 10 when operated with daily update, col. 6. lines 4 to 45.

199. In addition to the above discussion, the fact that Booth may disclose the setting of a pivot year with a zero in the second place is not the claimed setting of the claimed $Y_A Y_B$ with a zero in the Y_B , because in the steps of the claimed process $Y_A Y_B$ is selected as earlier than the earliest date in the database, so that the claimed $Y_A Y_B$ is not just any pivot date but one selected as recited in the claim. As selected by Booth there is no disclosure of any regard being taken to the earliest date in the database. The same applies to the Examiner's reference to Shaughnessy, even if the fact Shaughnessy might sometimes unintentionally select a pivot year with a zero in the second place, depending upon the installation date or the updated installation date, or the like, is a disclosure of affirmatively carrying out the claimed step in the claimed process to so select the $Y_A Y_B$, which it is not.

200. The Examiner has taken the position that:

15. Applicant argues that Ohms does not teach or suggest the step of '*Providing a database with symbolic representations of dates stored therein according to a format wherein M1M2 is the numerical month designator, DID2 is the numerical day designator and Y1 Y2 is the numerical year designator; all of the symbolic representations falling within a 10-decade period of time, as recited in claim 1.*' Applicant alleges that Ohms does not disclose the above limitations since Ohms teaches providing a database with the dates in a Lilian format. In response to the preceding arguments, the Examiner respectfully submits that Applicant's reading of Ohms is incorrect. Ohms teachings are not limited to dates in Lilian format. As

discussed in the office action, Ohms discloses the storing of dates in a database in Gregorian format, wherein said dates are converted from a six digit format (YYMMDD) to an eight digit format (YYYYMMDD). See page 247, table 1. Ohms further teaches that the dates stored in the database do fall within a ten decade period. See page 249. Consequently, the rejection is proper.

201. In addition to the above discussion, as noted Ohms does not disclose storing dates in the database in Gregorian format, and certainly does not disclose storing in Gregorian form any of the dates that are windowed for date data entry convenience. The entire point of Ohms is to avoid such a format in the storing of the date data by employing a Lilian format.

202. The Examiner has taken the position that:

17. Applicant argues that Ohms does not teach or suggest the step of 'determining a century designator C1 C2 for each symbolic representation of a date in the database, C1 C2 having' Applicant contends that Ohm teaches entering date data into the database to be converted into Lilian format for storage and manipulation within the database. Applicant further alleges that since the conversion in Lilian format does not require the determination of a century designator for data in the database, then Ohms cannot teach such limitation. In response to the preceding arguments, the Examiner respectfully submits that Applicant misread Ohms' teachings. As pointed out above, Ohms' teachings are not limited to conversion in Lilian format. Ohms also discloses the conversion of dates stored in a database in Gregorian format from a six digit format to an eight digit format to include the century designator. See page 247, table I and page 248.

203. In addition to the above discussion, even if Ohms discloses "conversion," Ohms does not do so as to dates "stored in the database," since they are in need of no such conversion, and does not do so for purposes of "facilitating further processing of the dates."

204. The Examiner has taken the position that:

18. Applicant argues that Ohms does not teach or suggest the step of 'reformatting the symbolic representation of the date with the values C 1 C2, Y 1 Y2, M 1 M2, and D 1 D2 to facilitate the further processing of the dates.' Applicant contends that Ohms does not disclose such limitation since it teaches reformatting into Lilian format and thereafter processing the date data in the database utilizing the Lilian format. In response to the preceding arguments, the Examiner respectfully submits that, as pointed out above in the remarks, Ohms' teachings are not limited to reformatting in Lilian format. Ohms discloses the reformatting of a short Gregorian date having six digit into a Gregorian date having eight digits. See page 247, table 1.

205. In addition to the above discussion, even if Ohms performs "reformatting" it is not of the "dates stored in the database" and it is not for the purpose of "further facilitating processing of the dates," since Ohms facilitates processing of the dates by storing them in the database in Lilian format.

206. The Examiner has taken the position that:

19. Applicant argues that Ohms does not teach or suggest the steps of sorting the symbolic representations of dates (claim 4); or reformatting each symbolic representation of a date into the format C1C2Y1Y2M1M2D1D2 (claim 5) or sorting the symbolic representations of dates and their associated (claim 6) or storing the symbolic representation of dates and their associated information back into the database (claim 9) or after the step of reformatting, manipulating information in the database having the reformatted date information therein (claim 10) or converting pre-existing date information having a different format into the format wherein M1M2 is the numerical month designator, D1D2 is the numerical day designator and Y1Y2 is the numerical year designator or selecting YaYb such that Yb is 0 (zero) (claim 8). In response to the preceding arguments, the examiner respectfully submits that it was conceded in the office action that Ohms does not teach the limitations of claims 4, 6, and 8. However, Booth was relied

upon to complement Ohms' teachings in order to reject the cited claims.

Regarding claims 5, 9 and 10, it was pointed out in the office action that Ohms teaches the reformatting of short order Gregorian dates having six digits into Gregorian dates having eight digits to thereby store the converted dates in the database for further use and processing. The limitations of these claims were fully addressed in the office action. It is noted, however, that Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant simply alleges that the cited limitations are not taught by Ohms without actually explaining how these limitations are distinguishable from the corresponding portions in Ohms on which the Examiner relied to establish the *prima facie* case. See page ... of the office action. Consequently, Applicant has failed to successfully rebut the rejection of claims 4-10 as laid out in paragraph ... Generally, Applicant bears the burden of explaining why the evidence on which the Examiner relies is insufficient to establish a prima facie case or demonstrating that Applicant has provided evidence which rebuts the prima facie case. See *In re Rouffet*, 149 F.3d 1350, 1355 47 USPQ2d 1453, 1455 (Fed. Cir. 1998).

207. In addition to the above discussion, Ohms' does not reformat date data having six characters into "Gregorian dates having eight digits *to thereby store the converted dates in the database for further use and processing ...*." Ohms stores dates in the database in Lillian format for further use and data processing. At least this element of the claims is missing from the combination relied upon by the examiner to find *prima facie* obviousness. In addition, as noted above, Ohms does not reformat dates "stored in the database," from the recited YY format to the recited CCYY format, and does not do any such reformatting for purposes of "facilitating further processing of the dates."

208. One skilled in the art, given the disclosure that the invention would facilitate a sort of dates in a format of C₁C₂Y₁Y₂M₁M₂D₁D₂, would realize that sorting of just C₁C₂Y₁Y₂,

without regard to also sorting the month and day data, is possible, without undue experimentation.

209. The specification and claims of the Dickens patent support the recitations of claims 36-37, 40-41, 51-59, 69 and 38, 39, and 42-43. This is further evidenced by the content of Exhibit A. Exhibit A includes instructions that amount to "collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations" (claims 36, 37) and "collectively sorting the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations" (claims 40-41), and "collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations" (claims 48-49) and "collectively manipulating the converted symbolic representations" (claims 50-51) and "collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program" (claims 52-53) and "collectively manipulating the converted symbolic representations" (claims 54-55) "wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date" (claims 56-59) and "reformatting the symbolic representation of each symbolic representation of a date in the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1 C_2 , Y_1 Y_2 ; sorting the

reformatted symbolic representations of the dates in the form $C_1 C_2 Y_1 Y_2$; and running a program on the reformatted symbolic representations of each of the dates” (claim 69) and “collectively manipulating the converted symbolic representations prior to the step of running the program on the converted symbolic representations” (claims 38-39) and “collectively manipulating the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations” (claims 42-43). Exhibit a shows that the data being sorted includes the reformatted dates.


210. Exhibit A supports the claimed process steps of “collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates” (claims 16-25) and “collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates” (claims 31-33) and “to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates” claims 66-67) “prior to collectively further processing information contained within the database associated with the respective dates” (claim 72) and “collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations” (claims 36-37) and “collectively manipulating the converted symbolic representations prior to the step of running the program on the converted symbolic representations” (claims 38-39) and “collectively sorting the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations” (claims 40-41) and “collectively manipulating the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations” (claims 42-43).

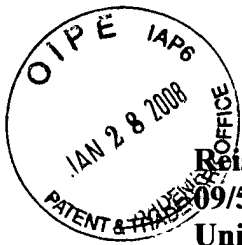
211. Exhibit A supports the recitations of "reformatting each symbolic representation of a date into the format C₁ C₂ Y₁ Y₂ M₁ M₂ D₁ D₂ separately from the symbolic representations in the database" (claims 20-21) and "running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database" (claims 62-65) and "running a program on the stored converted symbolic representations of each of the converted symbolic representations of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database" (claim 71).

212. The Dickens patent Specification, even without Exhibit A, but also including Exhibit A, supports the recitation "converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting" (claims 34-59) and "converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting" (claims 60-65). Specifically the term "windowing" as used in these claims is used according to the ordinary meaning that one of ordinary skill in the art would understand in the context of the other claim recitations of these claims.

213. I Mark Winner, make the above statements based upon my own knowledge and experience as one skilled in the art at the time of the filing of the application leading to the Dickens patent and based upon my review and understanding of the documents referenced in Paragraph 2 above. I make these statements of my own knowledge, or if based upon information and belief, based upon my so being informed and believing the statement to be true. I make these statements with the knowledge that willful false statements are punishable by fine or imprisonment under 18 U.S.C. §1001 and like statutes and laws and that such willful false statements may jeopardize the validity of the above referenced application and any patent(s) that may arise from this proceeding.

Respectfully submitted,


Mark Winner



Reissue Application No.:)
09/512,592)
United States Patent No.:)
5,806,063)
Issued: September 8, 1998)
Applicant:)
Dickens-Soeder2000,LLC)
Reexamination Proceeding:)
90/005,592)
Filed: December 21, 1999)
Reexamination Proceeding:)
90/005,628)
Filed: February 2, 2000)
Reexamination Proceeding:)
90/005,727)
Filed: May 16, 2000)
Reexamination Proceeding)
90/006,541)
Filed February 2, 2003)

Group Art Unit: 2161

Examiner: LeRoux, E.

Applicant's Replacement Appeal Brief
Evidence Appendix B
B(3) Application Filing Cover Letter and Accompanying Exhibit A

725574

FORM PTO-1002

Case Docket No. 11151

THE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of

Inventor: Bruce Dickens

For: DATE FORMATTING AND SORTING FOR DATES SPANNING THE TURN OF THE CENTURY

Enclosed are:
☒ 1 sheets of drawing.

☒ An assignment of the invention to McDonnell Douglas Corporation

- ☐ A certified copy of a _____ application.
☐ An associate power of attorney.
☐ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27.
☒ Exhibit A

The filing fee has been calculated as shown below:

	(Col. 1)	(Col. 2)
FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	15-20 =	0
INDEP CLAIMS	2-3 =	0
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED		

* If the difference in Col. 1 is less than zero, enter "0" in Col. 2

SMALL ENTITY			OTHER THAN A SMALL ENTITY	
RATE	FEE	OR	RATE	FEE
	\$ 170	OR		\$ XXX 770
X 6 =	\$	OR	X12 =	\$
X17 =	\$	OR	X34 =	\$
+55 =	\$	OR	+110 =	\$
Assign. \$		OR	Assign. \$	40
TOTAL			TOTAL	810

☐ Please charge my Deposit Account No. _____ the amount of \$ _____. A duplicate copy of this sheet is enclosed.

☒ A check in the amount of \$ 810 to cover the filing fee is enclosed.

☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 07-0143. A duplicate copy of this sheet is enclosed.

☒ Any additional filing fees required under 37 CFR 1.16.

☒ Any patent application processing fees under 37 CFR 1.17.

☒ The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 07-0143. A duplicate copy of this sheet is enclosed.

☒ Any patent application processing fees under 37 CFR 1.17.

☐ The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311 (b).

☐ Any filing fees under 37 CFR 1.16 for presentation of extra claims.

☒ Any deficiencies in fees in this application.

Gregory Garmong
P.O. Box 12460
Zephyr Cove, NV 89448

Respectfully submitted,

Gregory Garmong, Reg. No. 29,382

-- Century Conversion --

Bruce Dickens Apr 04, 1996

```
10 open structure tools:name 'otms_src_dir:tools'
open #2 : name 'last_inv.dat', access output
print " Tools 'Last Inventory Data Format' Check for 1996 Inventory"
print "ToolNo"; " Model No "; " LAST_INV "; "LAST_INV "
print "-----"; " ----- "; " ----- "; "----- "
print "Extract Data:"
print #2: "ToolNo"; " Model No "; " LAST_INV "; "LAST_I
NV "
print #2: "-----"; " ----- "; " ----- "; "-----
== "
print #2: "Extract Data:"

20 extract structure tools
yy$ = lpad$(element$(tools(last_inv),3,"/"), 2, "0" )
mm$ = lpad$(element$(tools(last_inv),1,"/"), 2, "0" )
dd$ = lpad$(element$(tools(last_inv),2,"/"), 2, "0" )
cc$= yy$ + "/" + mm$ + "/" + dd$
cl$ = change$(cc$,'/', '')
if cl$[1:2] < '50' then
c$ = '20' + cl$
else
c$= '19' + cl$
end if
include c$ < '19960101'
sort by tools(model)
sort by rpad$(c$,8, '0')
if c$[1:8] < '19960101' then
print tools(toolno); tab(23); tools(model); &
tab(35);tools(last_inv); tab(44); c$
print #2: tools(toolno); tab(23); tools(model); &
tab(35);tools(last_inv); tab(44); c$
if valid ( cl$, "digits" ) = 0 then
print ;tab(53); " Date format is not digits"
print #2: ;tab(53); " Date format is not digits"
end if
if valid ( cl$, "minlength 6" ) = 0 then
print ;tab(50); " Date format is short"
print #2: ;tab(50); " Date format is short"
end if
if tools(last_inv) = "" then
print ;tab(53); " Date format is blank "
print #2: ;tab(53); " Date format is blank "
end if
end if
30 end extract
print
print "Sorted Data:"
print
40 for each tools
cl$ = change$(tools(last_inv),'/', '')
print tools(toolno); tab(23); tools(model); &
tab(35); tools(last_inv); tab(44); c$
print #2: tools(toolno); tab(23); tools(model); &
tab(35); tools(last_inv); tab(44); c$
if valid ( cl$, "digits" ) = 0 then
print ;tab(53); " Date format is not digits"
print #2: ;tab(53); " Date format is not digits"
end if
if valid ( cl$, "minlength 6" ) = 0 then
print ;tab(53); " Date format is short"
print #2: ;tab(53); " Date format is short"
end if
```

Exhibit A

Reissue Application No.:)	Group Art Unit: 2161
09/512,592)	
United States Patent No.:)	Examiner: Coby, F.
5,806,063)	
Issued: September 8, 1998)	
Applicant:)	
<u>Dickens-Soeder2000,LLC</u>)	
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Reexamination Proceeding:)	
90/005,727)	
<u>Filed: May 16, 2000</u>)	
Reexamination Proceeding)	
90/006,541)	
<u>Filed February 2, 2003</u>)	

**Applicant's Appeal Brief
Appendix D
Related Proceedings**

None